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DATE 10-6-86

FIG. 1.

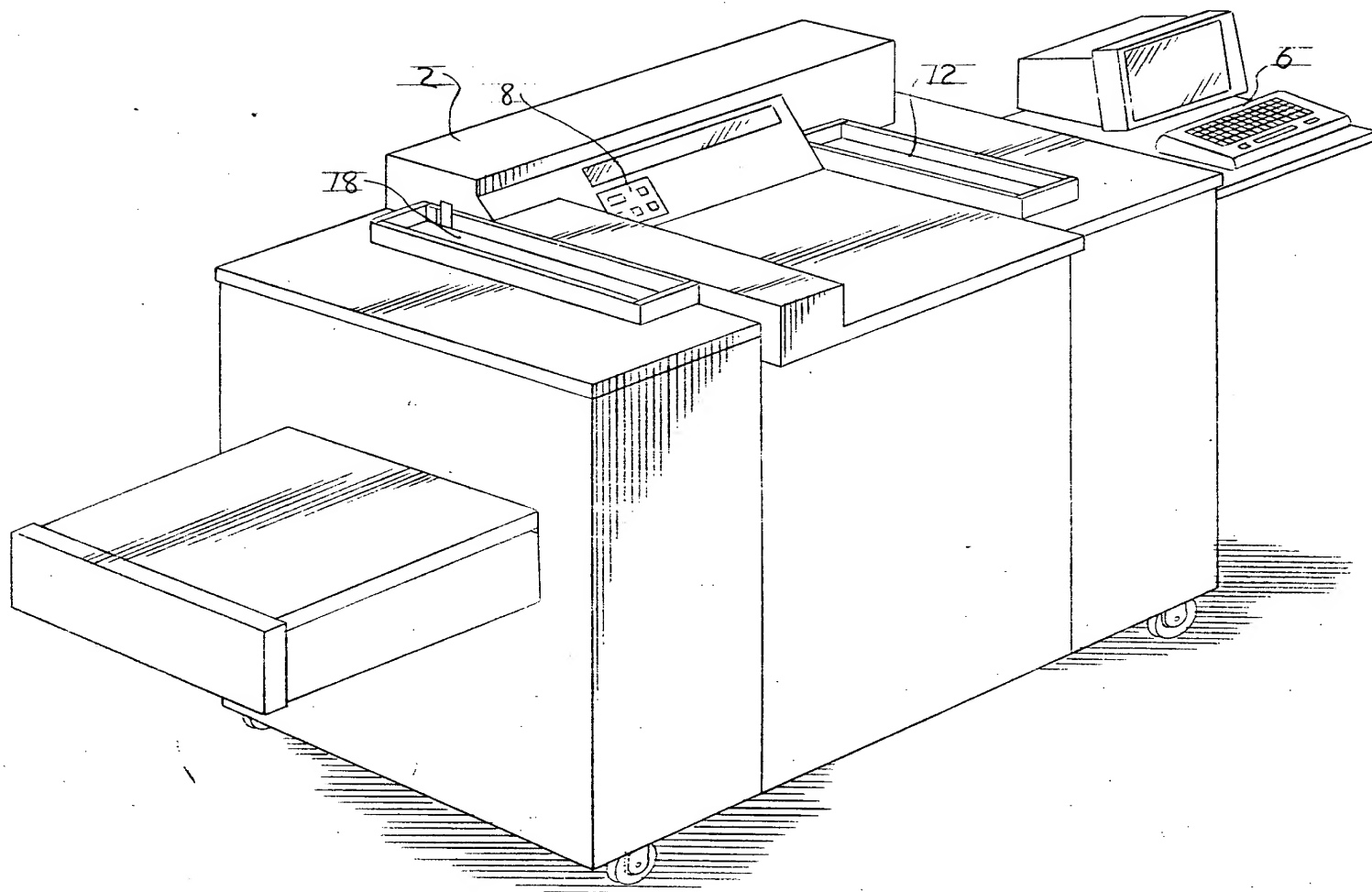
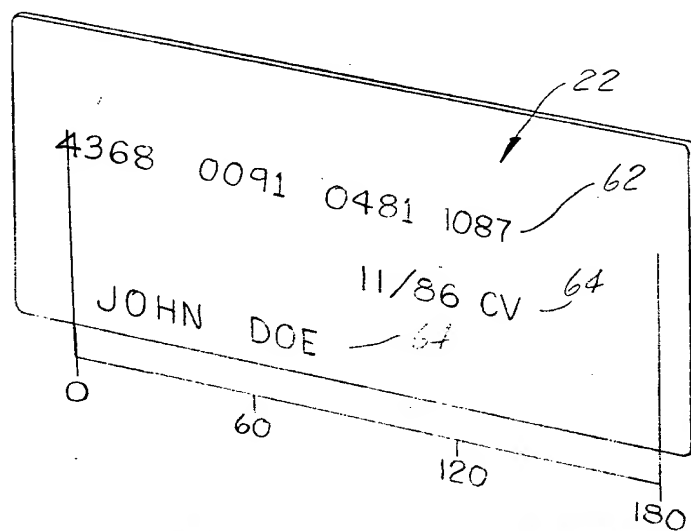
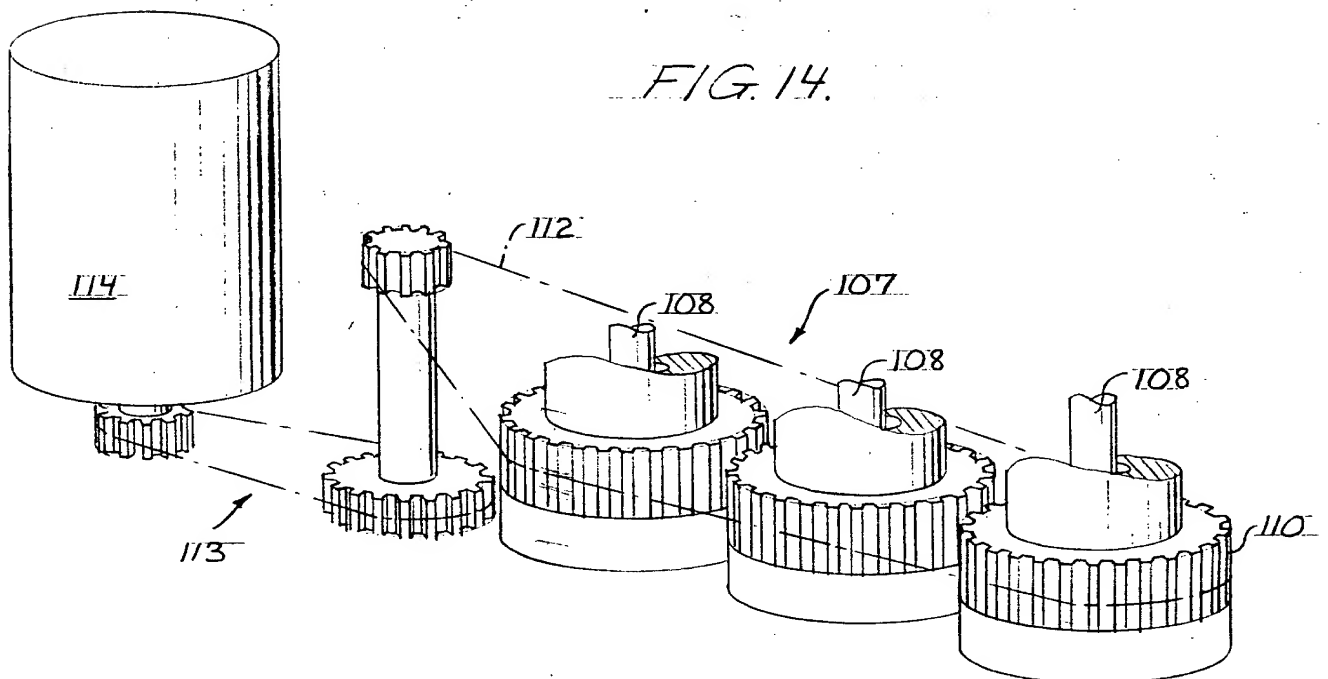
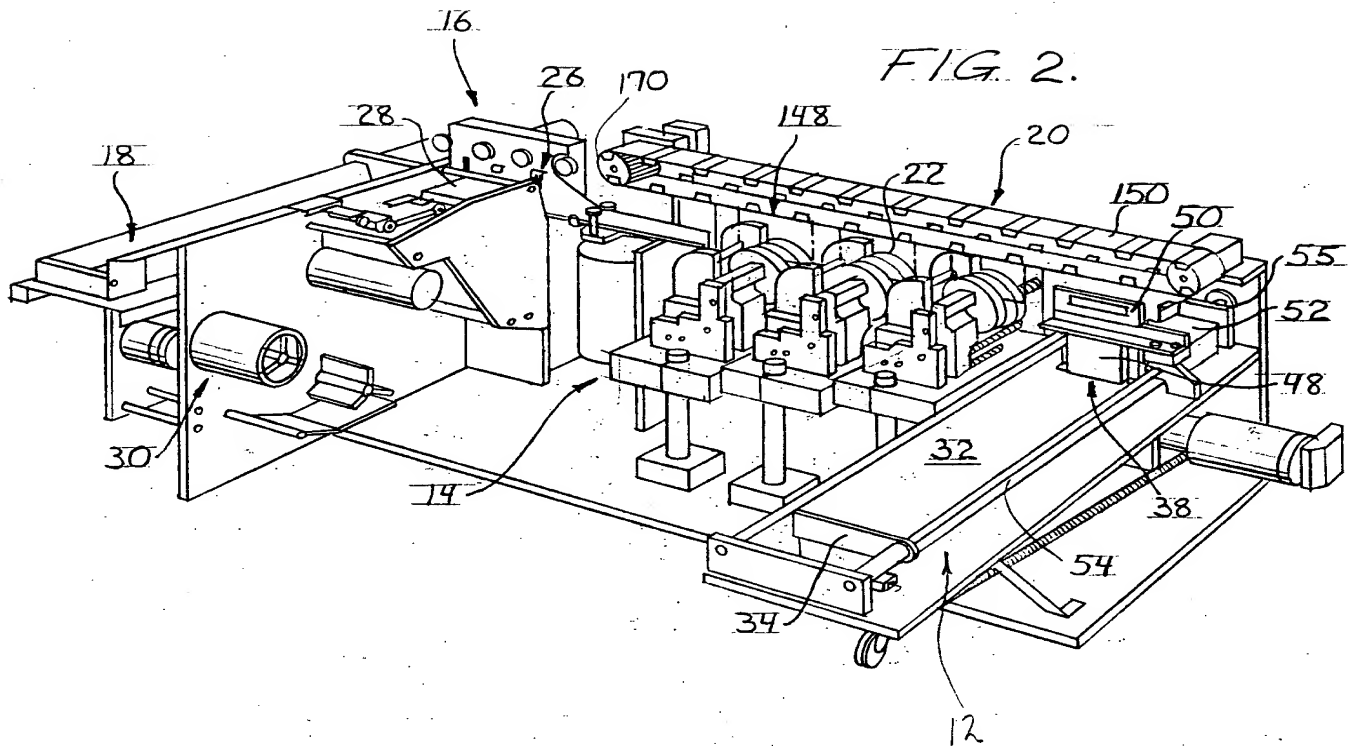


FIG. 7.



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FIG. 3

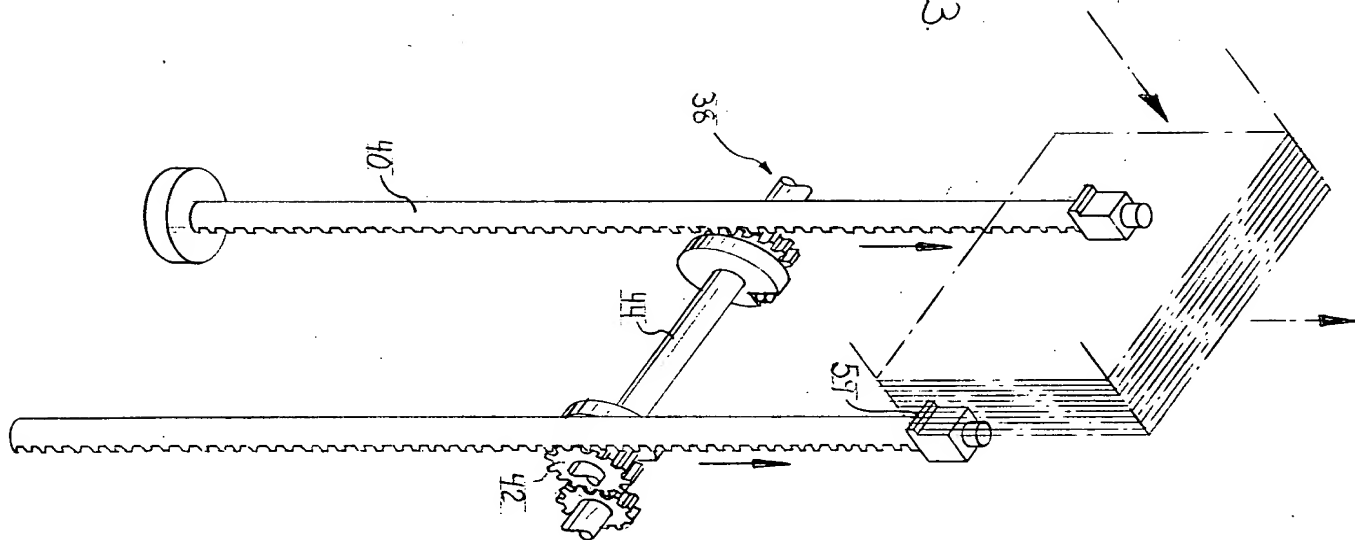
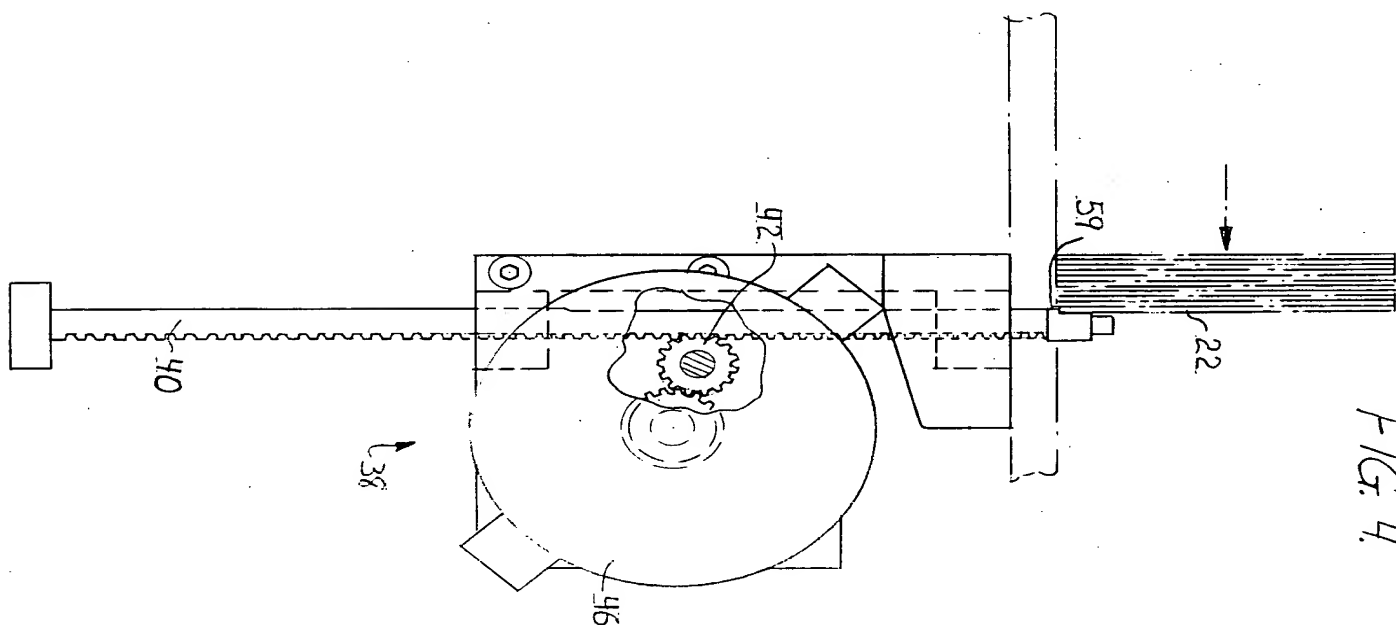


FIG. 4



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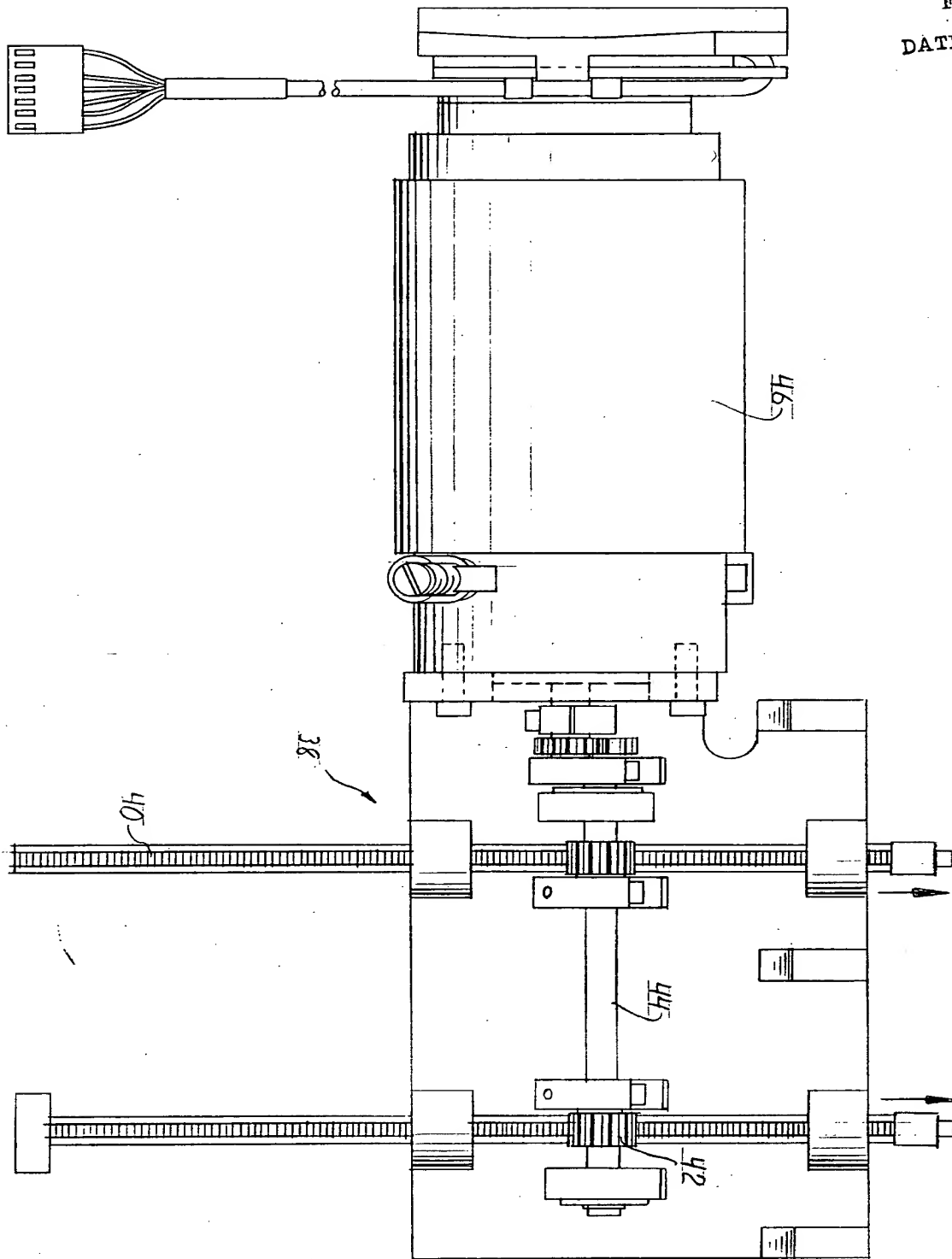
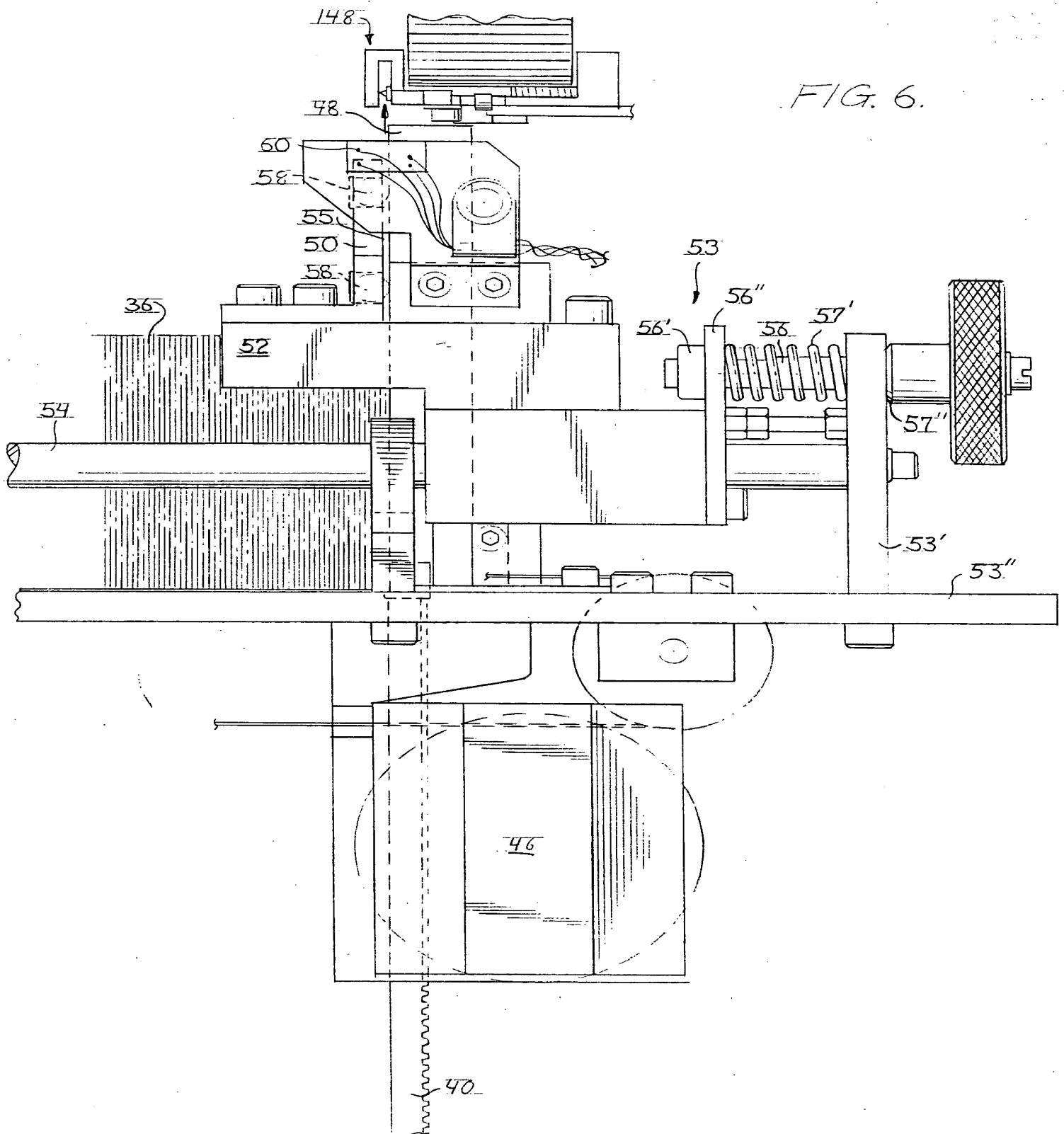


FIG. 5.

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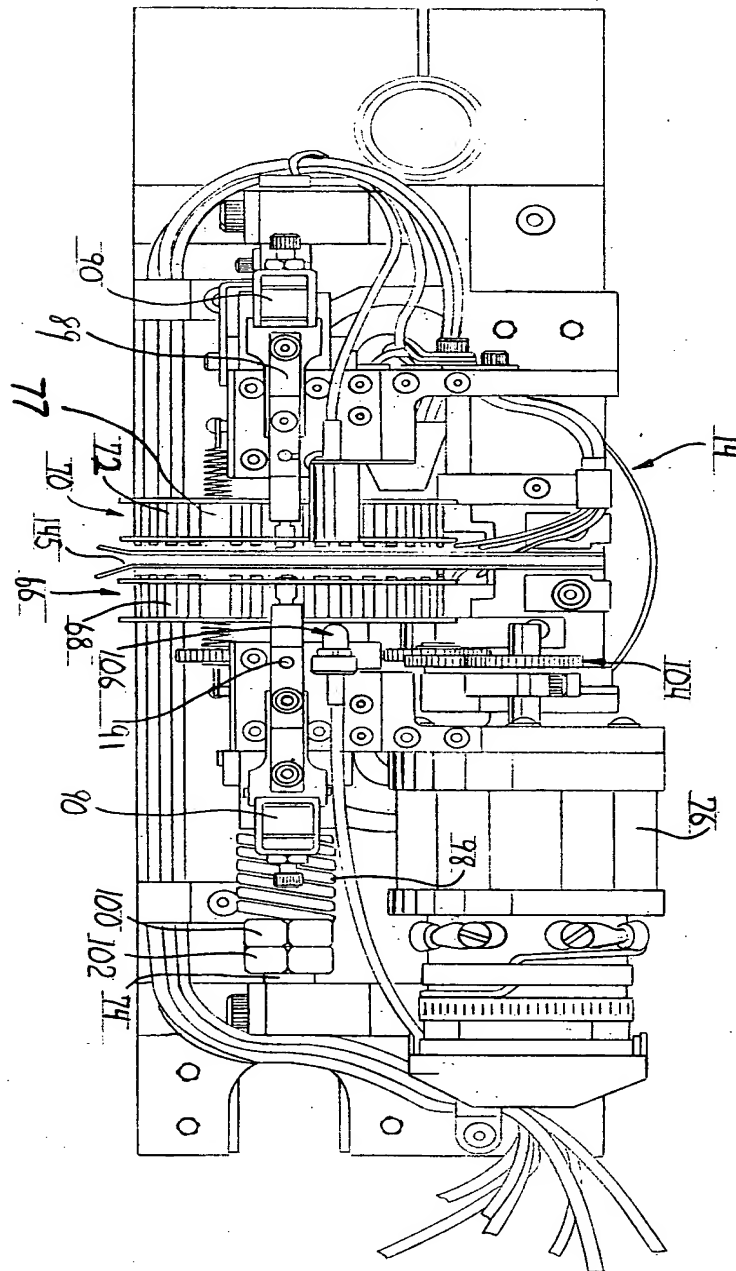
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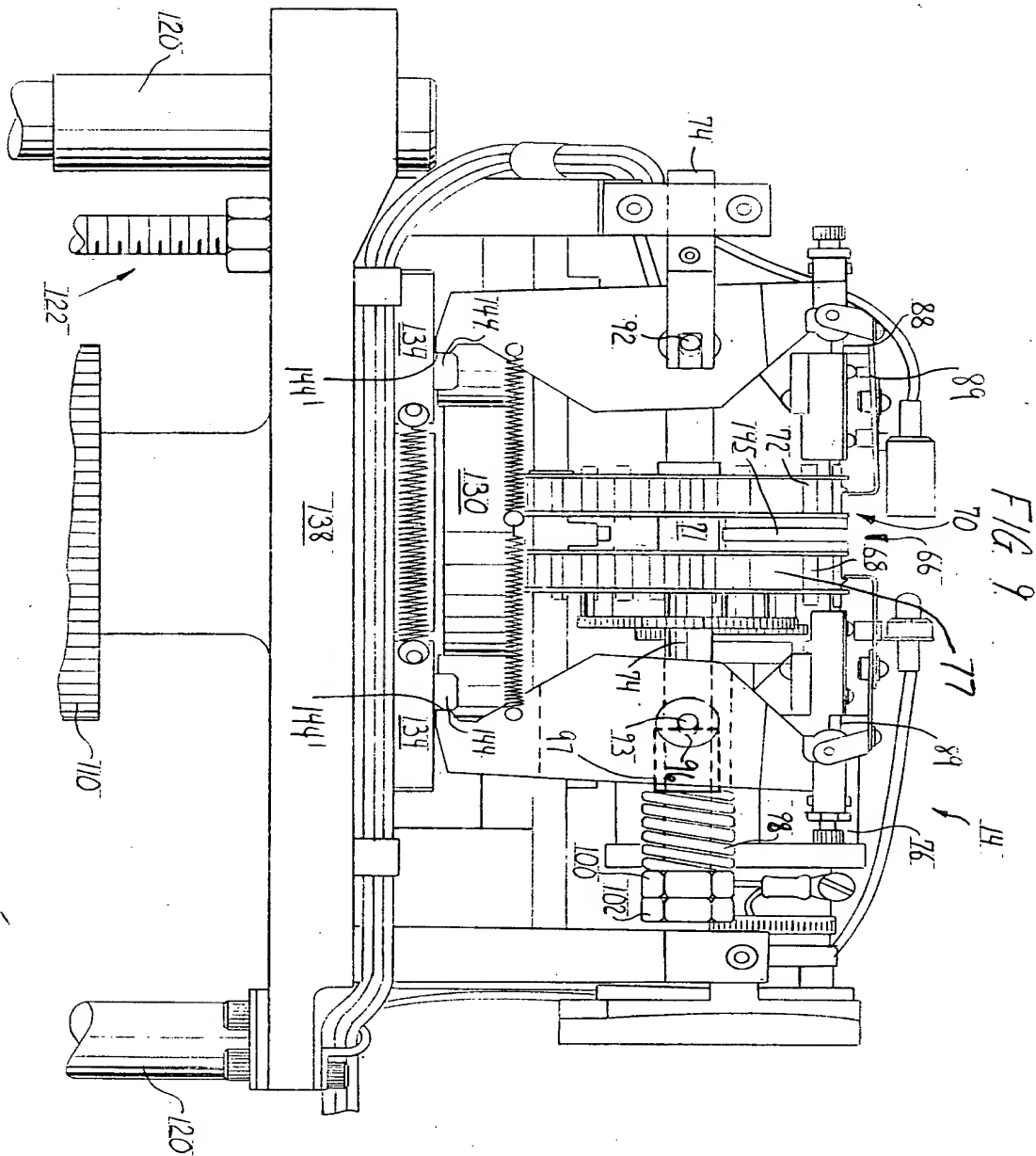


FIG. 13.

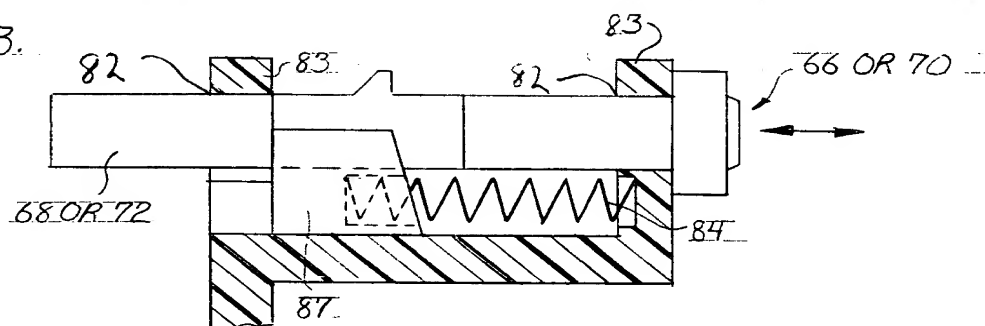
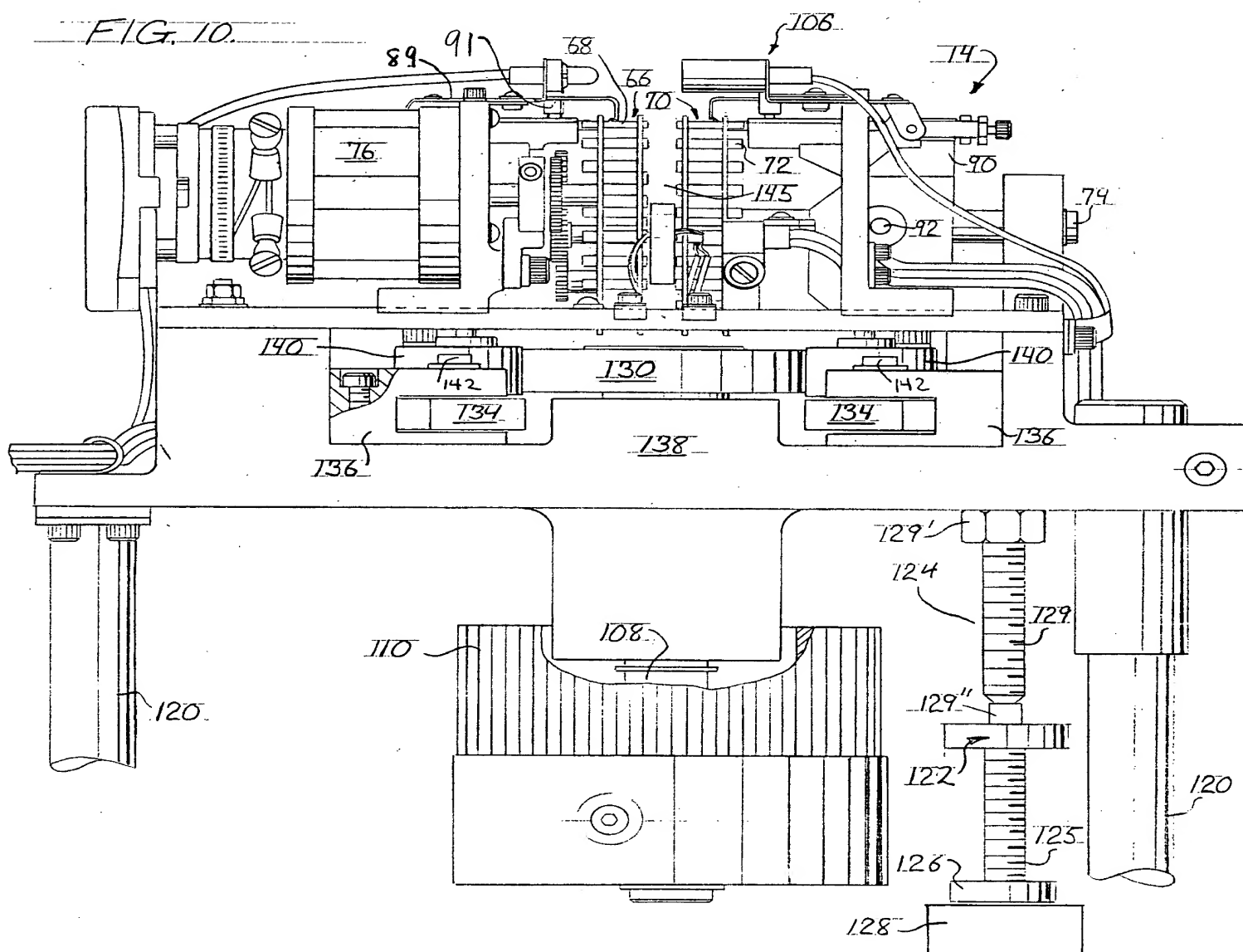


FIG. 10.





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FIG. 11.

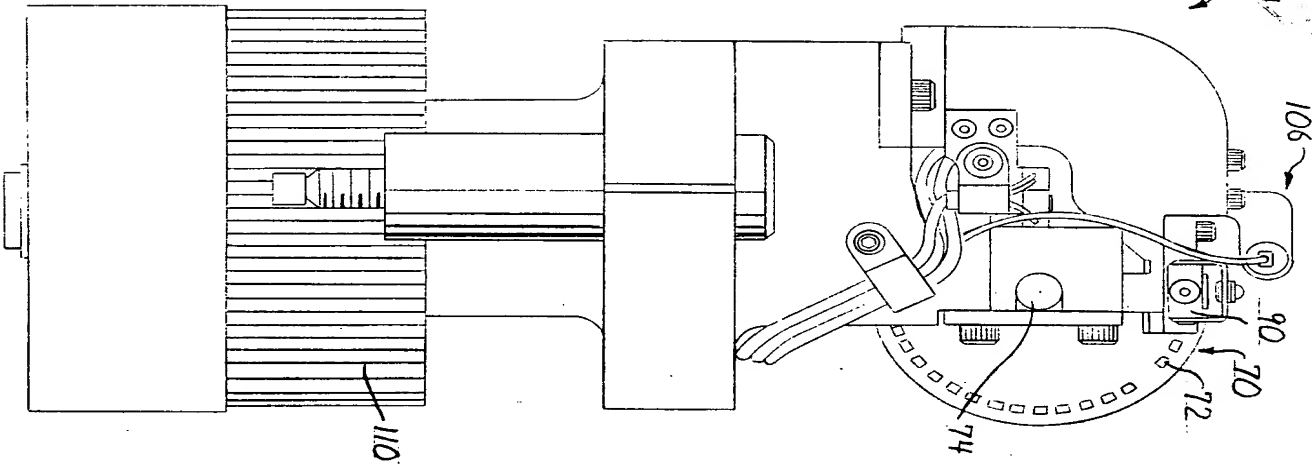
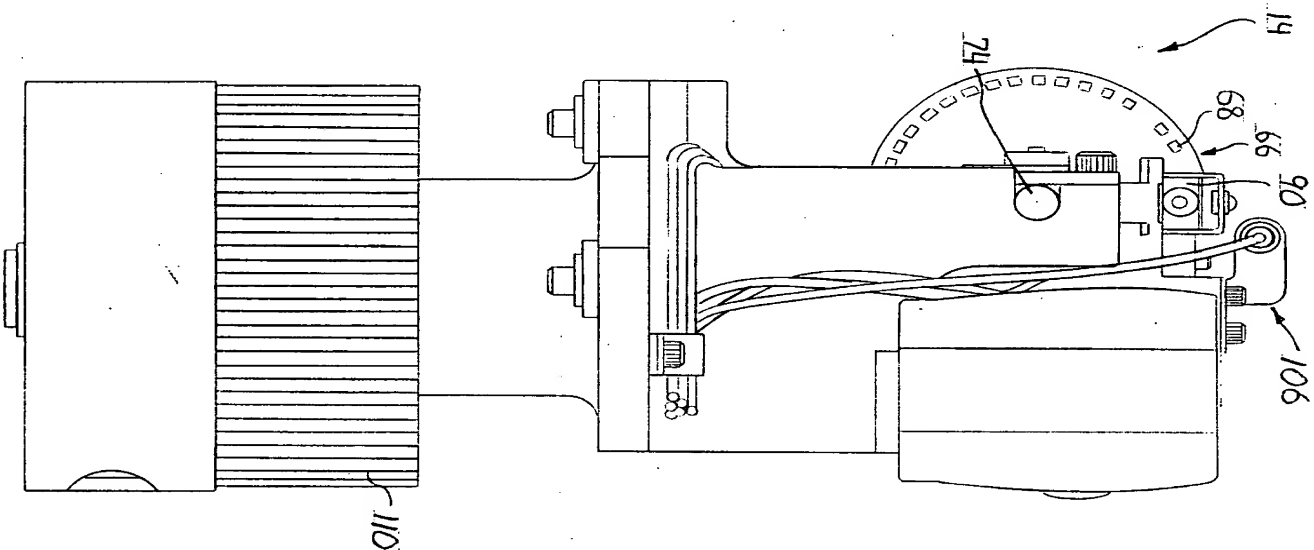


FIG. 12.



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FIG. 15

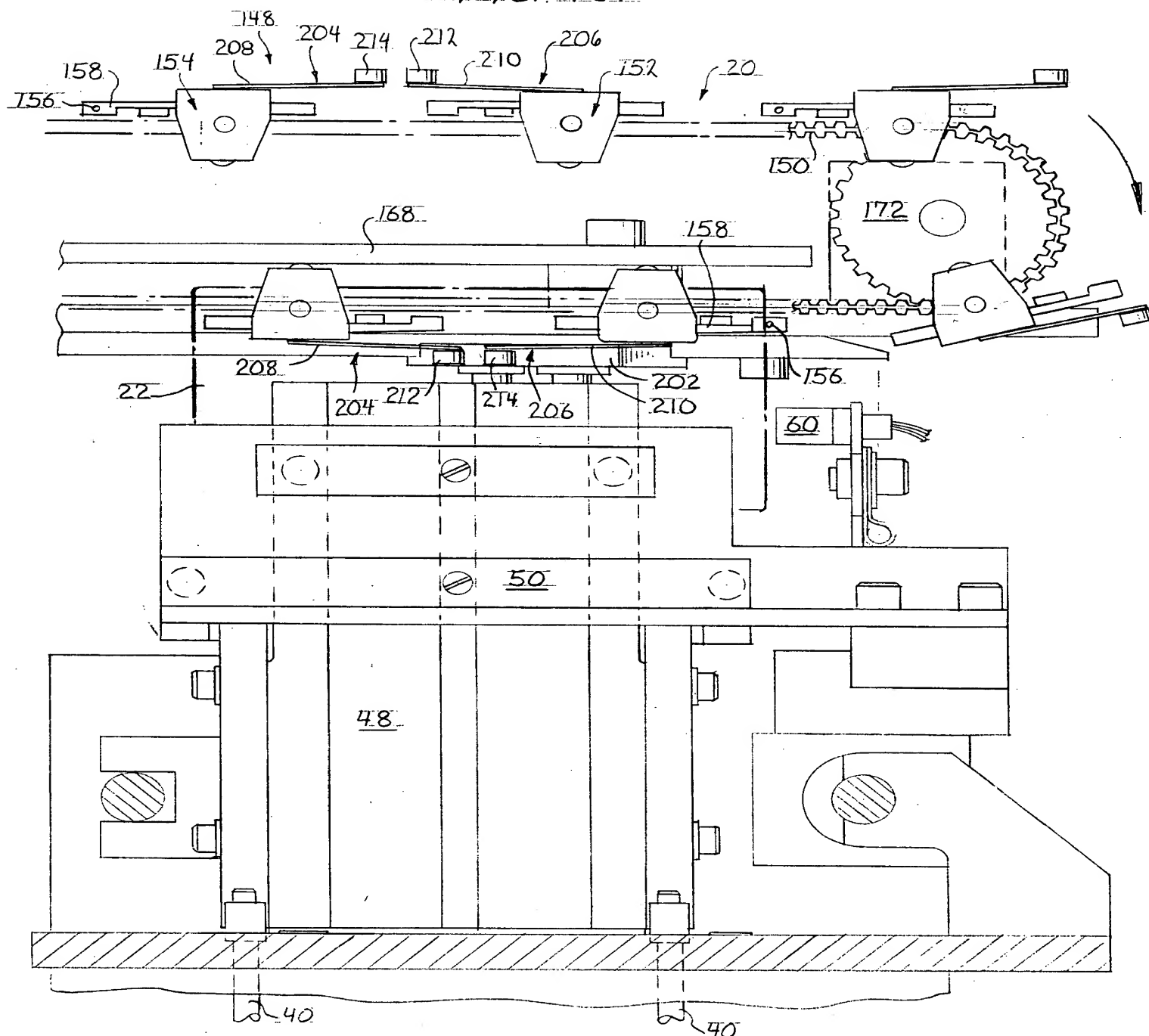
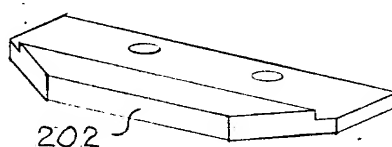


FIG. 16.



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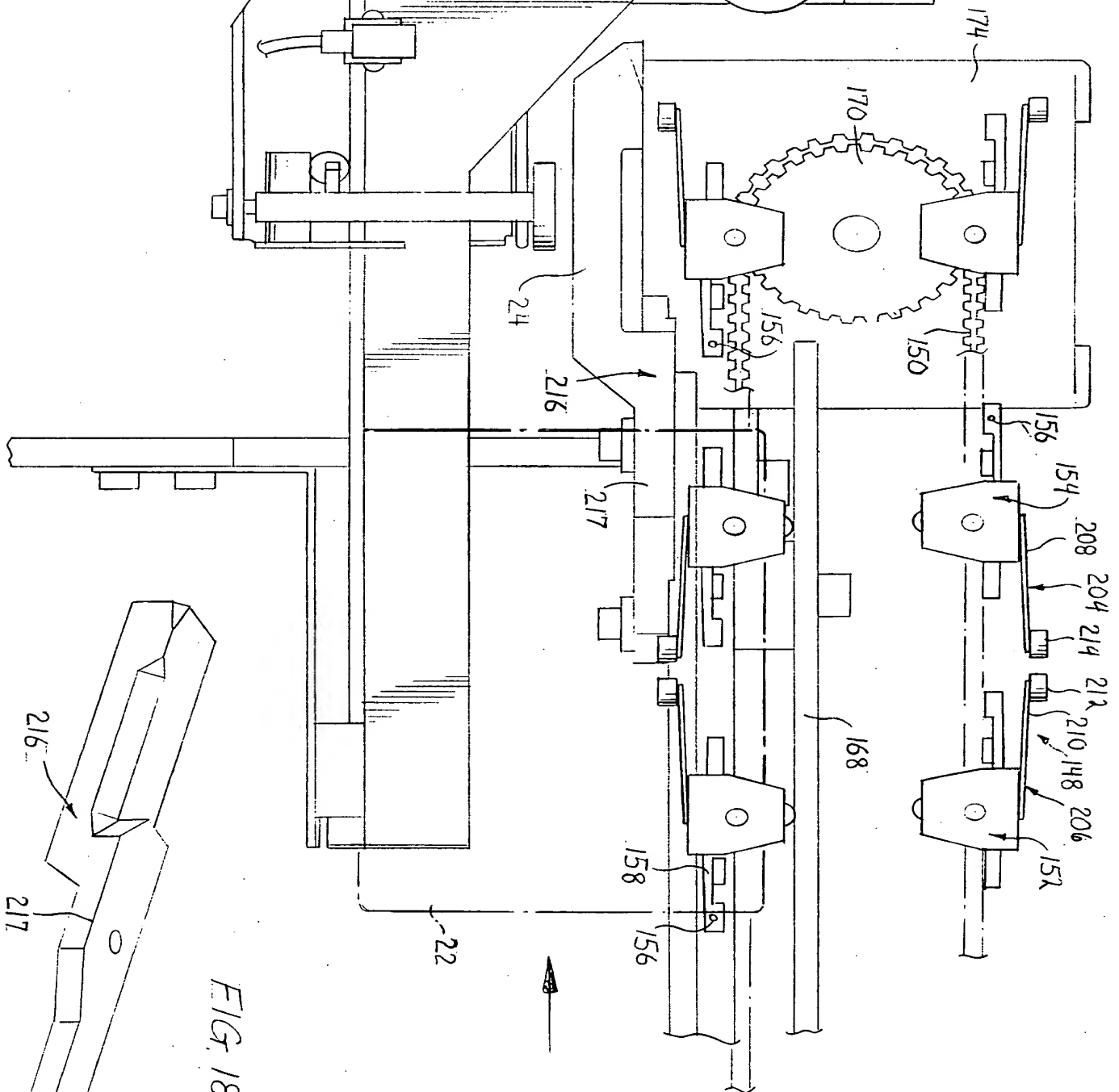


FIG. 17.

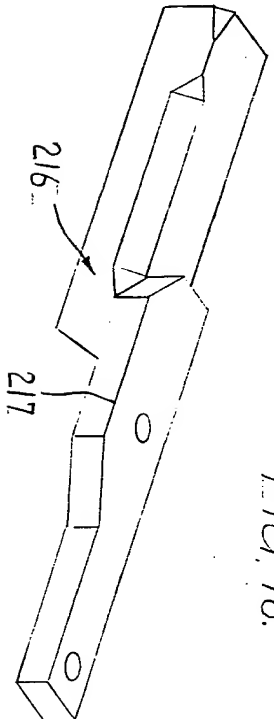


FIG. 18.

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FIG. 19.

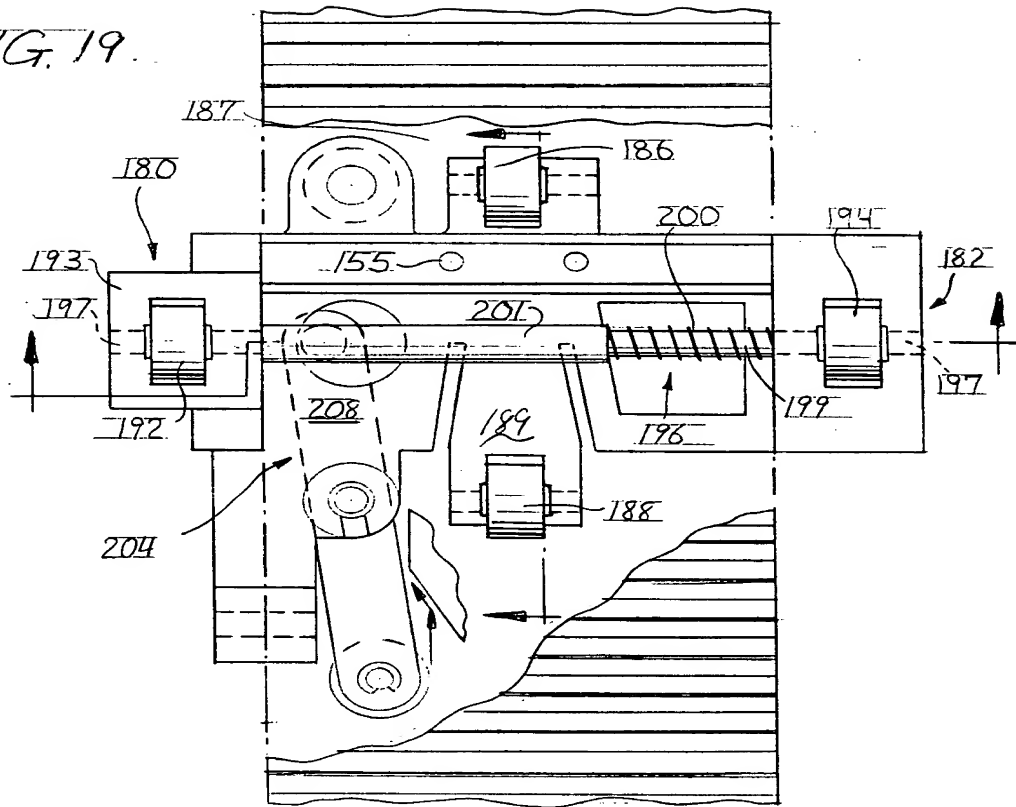


FIG. 20.

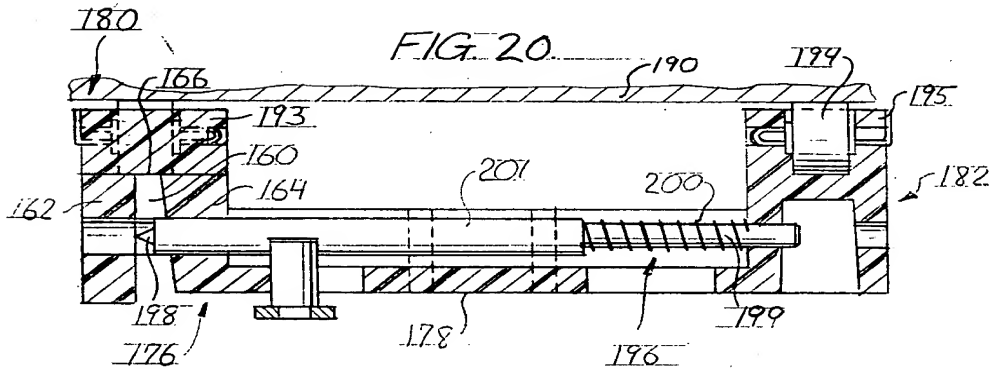


FIG. 22.

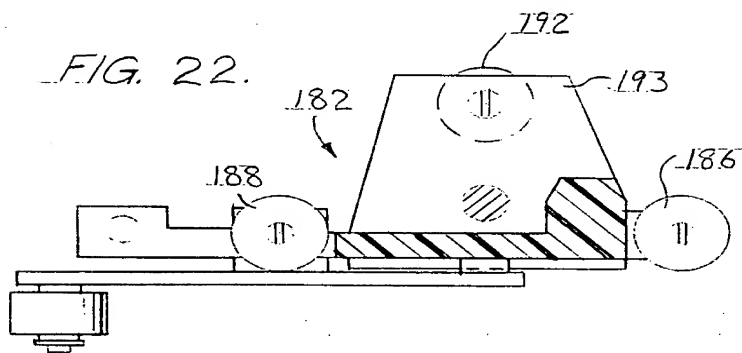
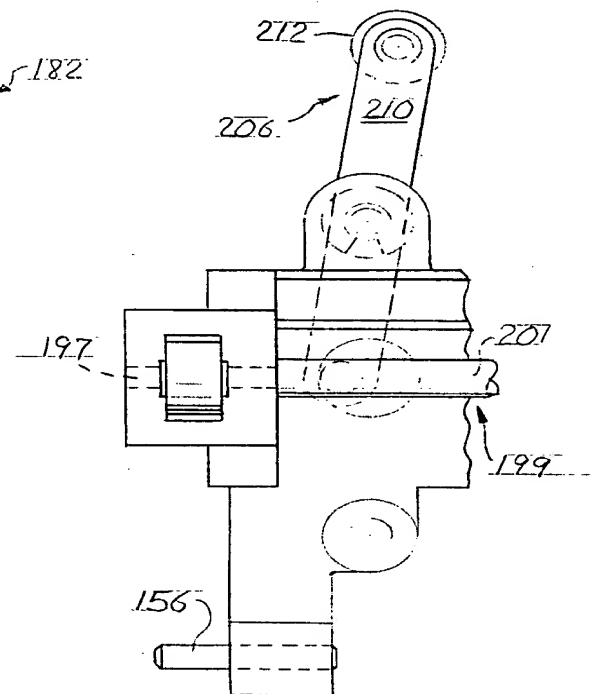


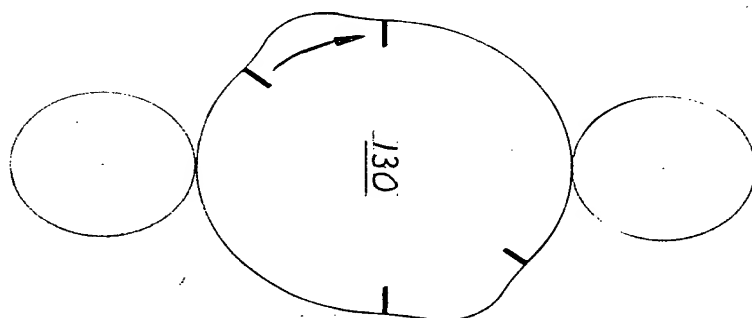
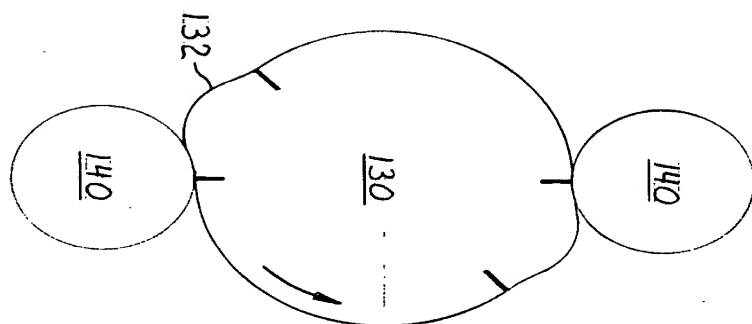
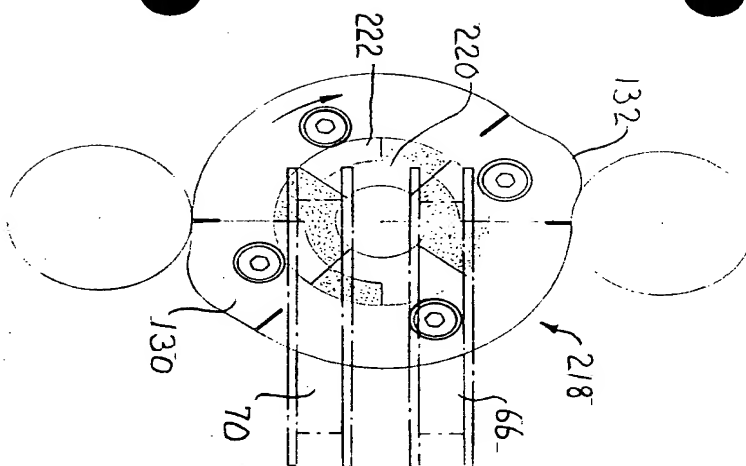
FIG. 21.



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FIG. 23.



3RD EMBOSSED UNIT 14  
10 PITCH  
START OF CAM RISE

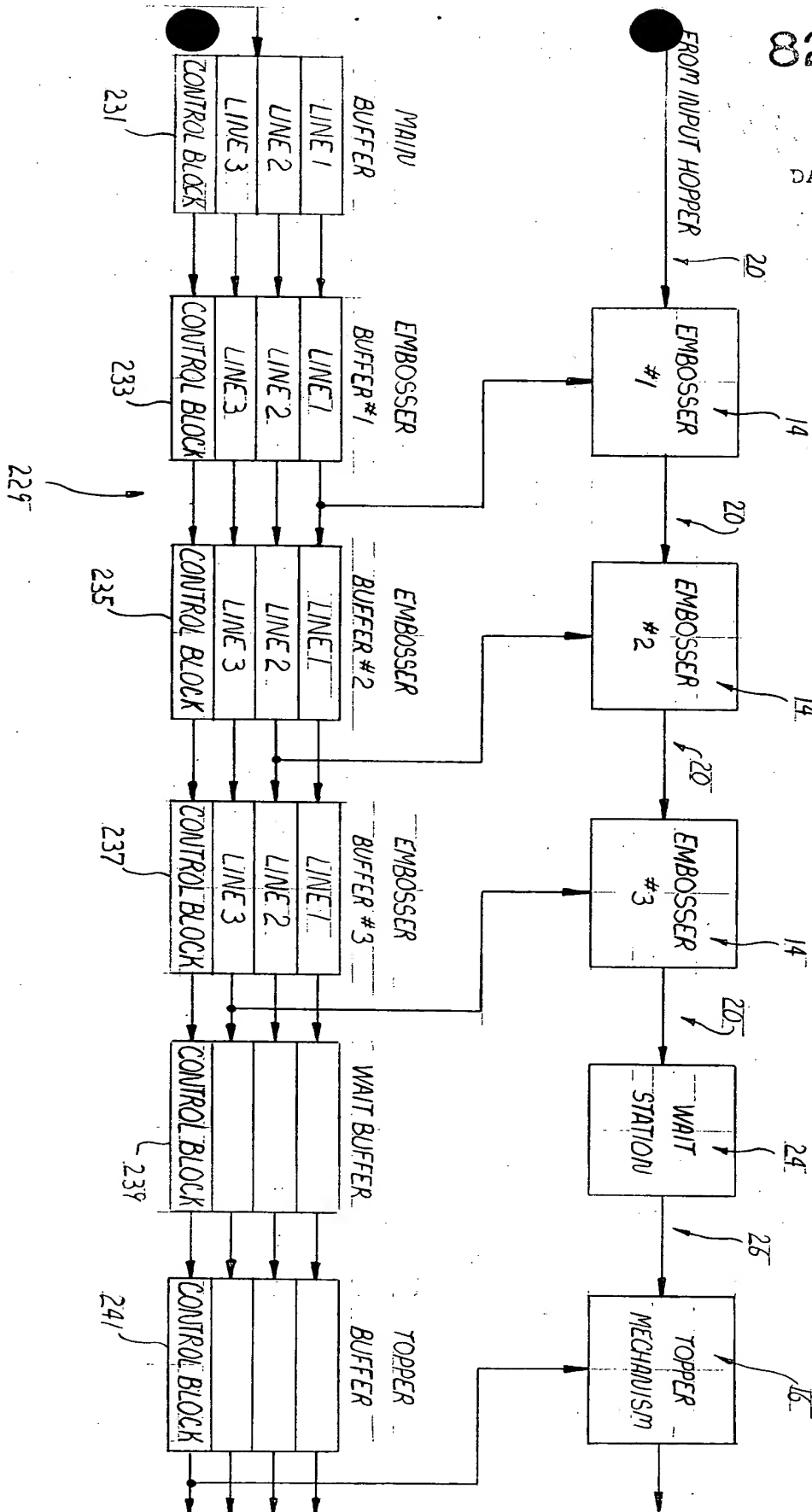
2ND EMBOSSED UNIT 14  
10 PITCH  
START OF CAM PITCH

1ST EMBOSSED UNIT 14  
7 PITCH  
90° BEFORE CAM RISE

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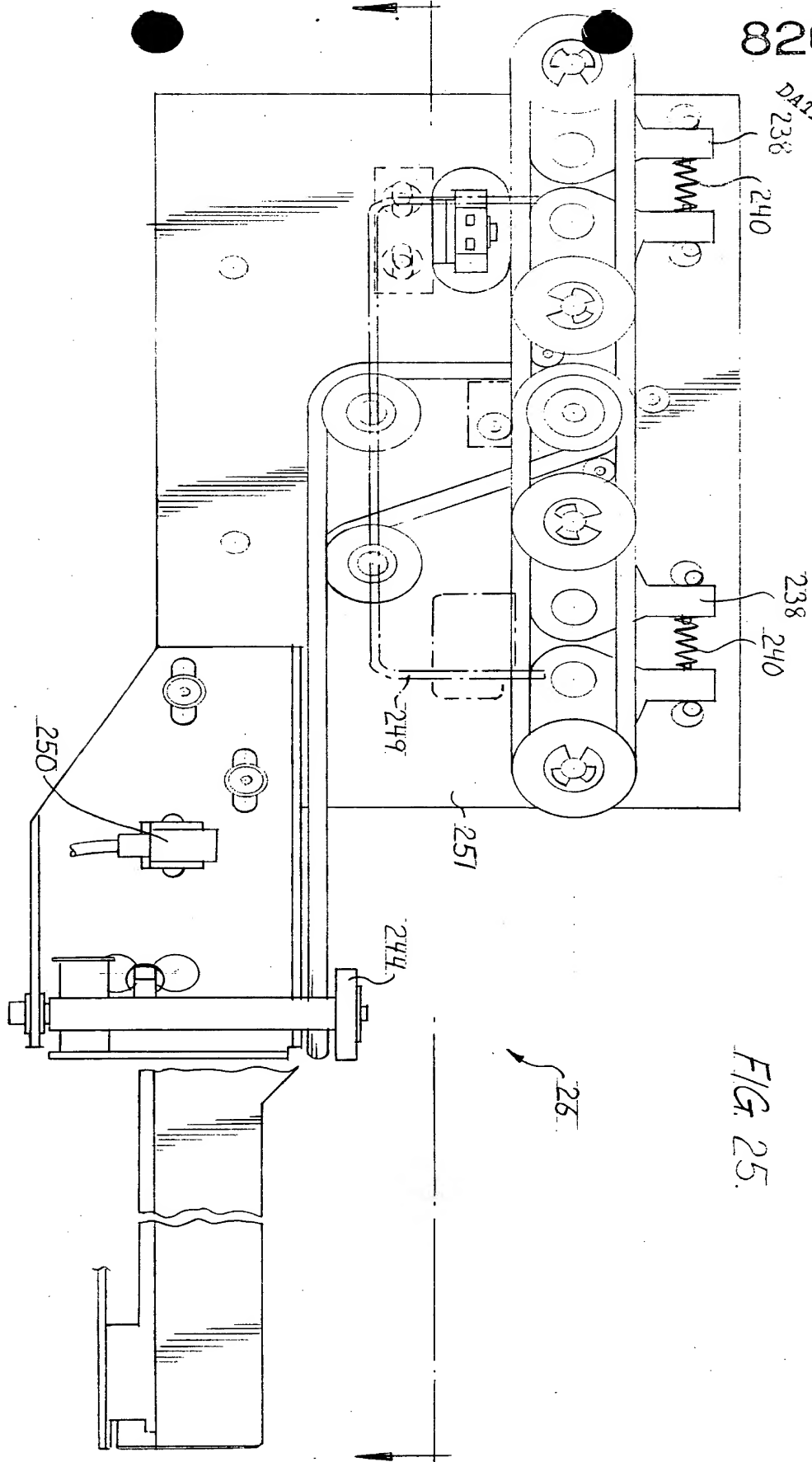
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FIG. 24



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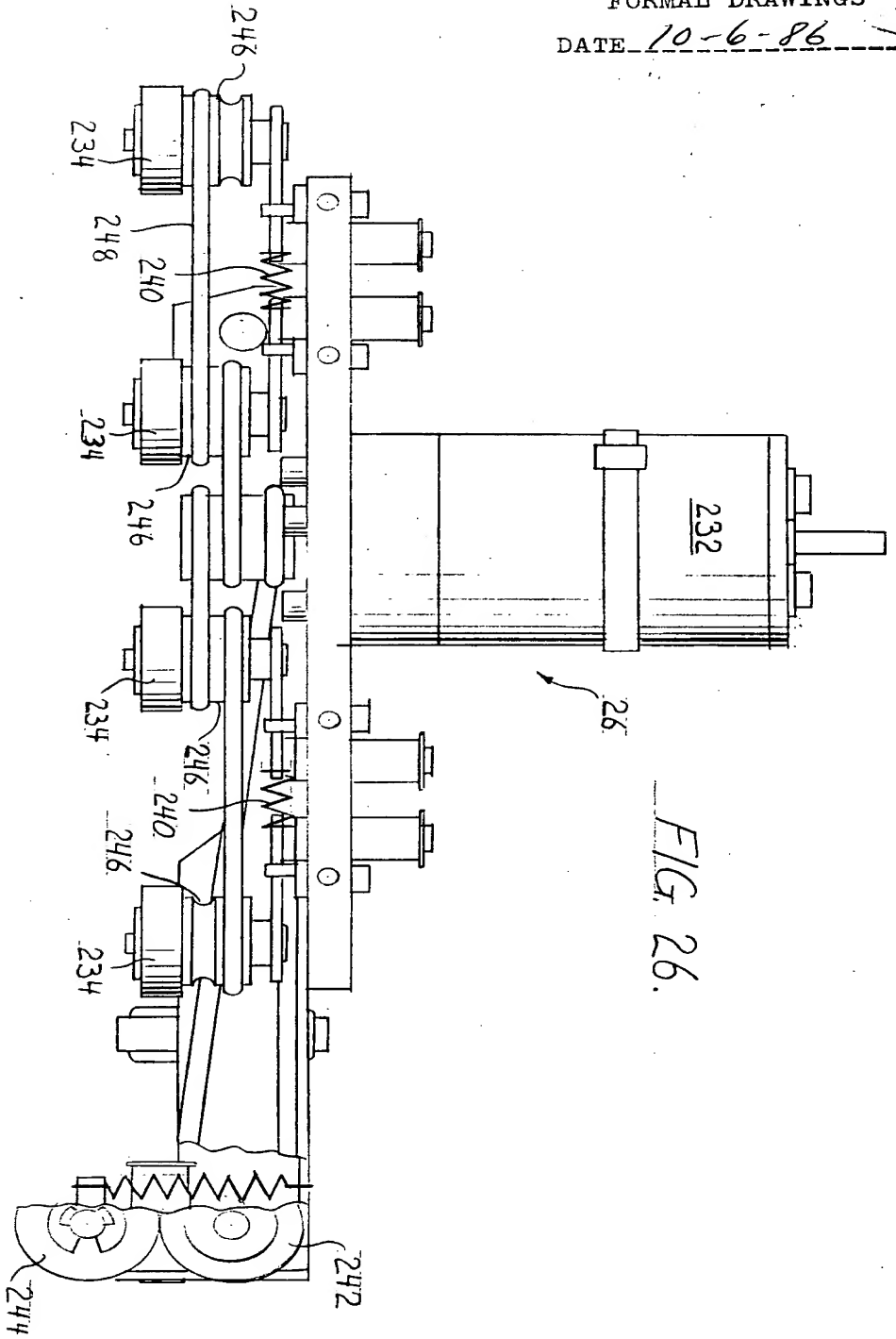


FIG. 27

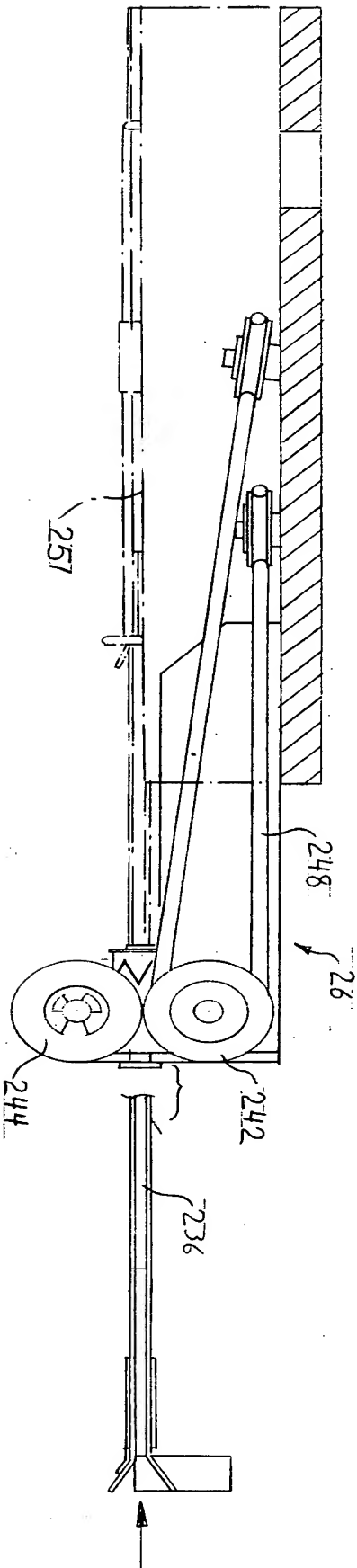




FIG. 28.

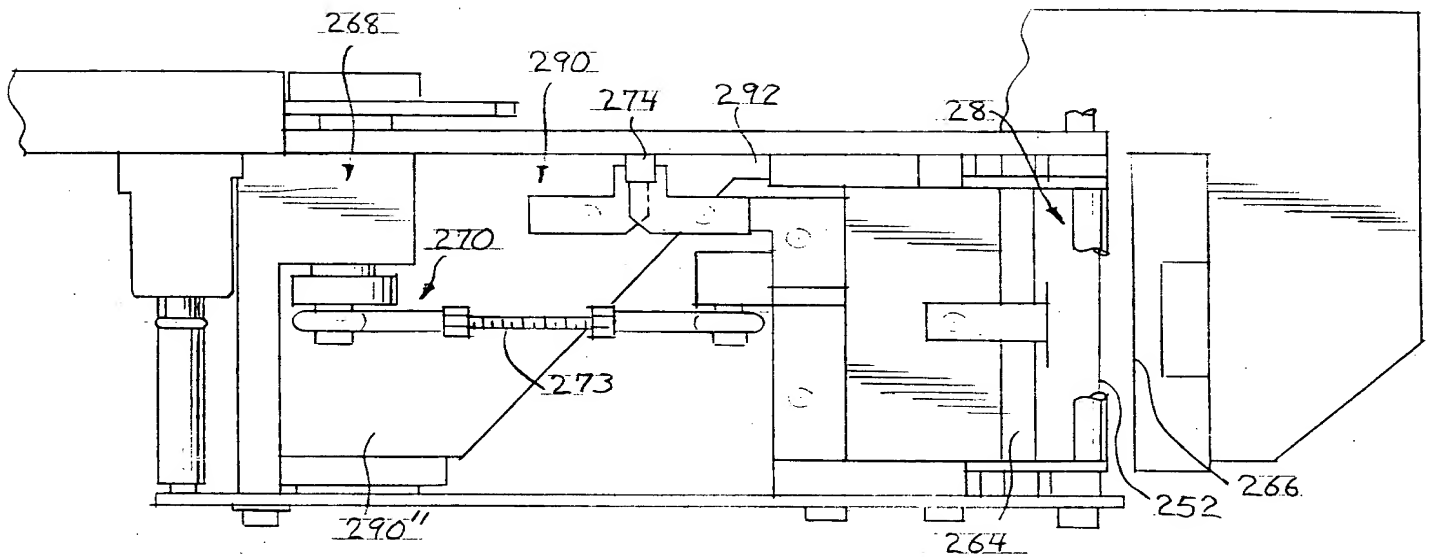


FIG. 30.

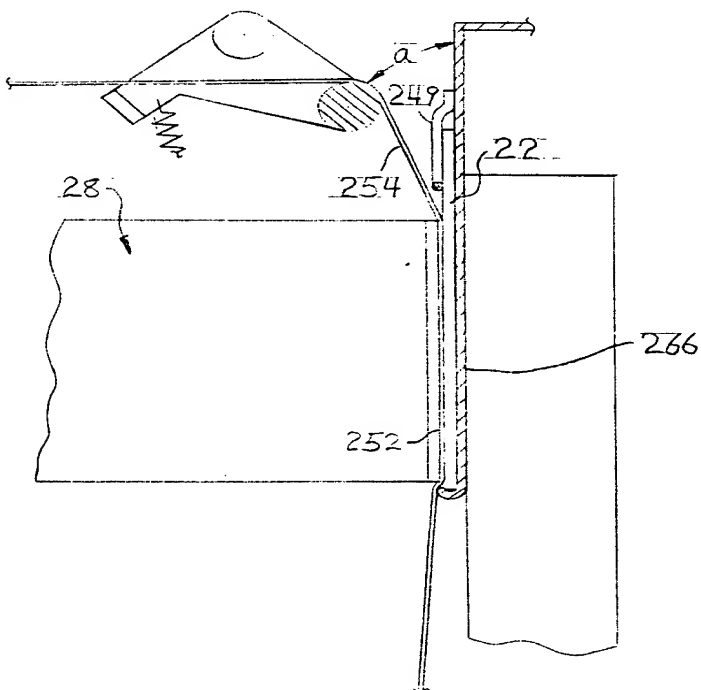
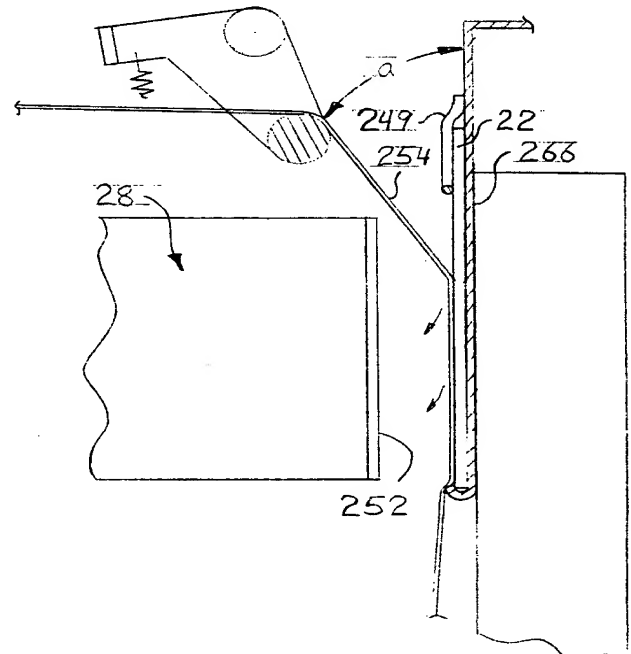


FIG. 31.



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FIG. 29.

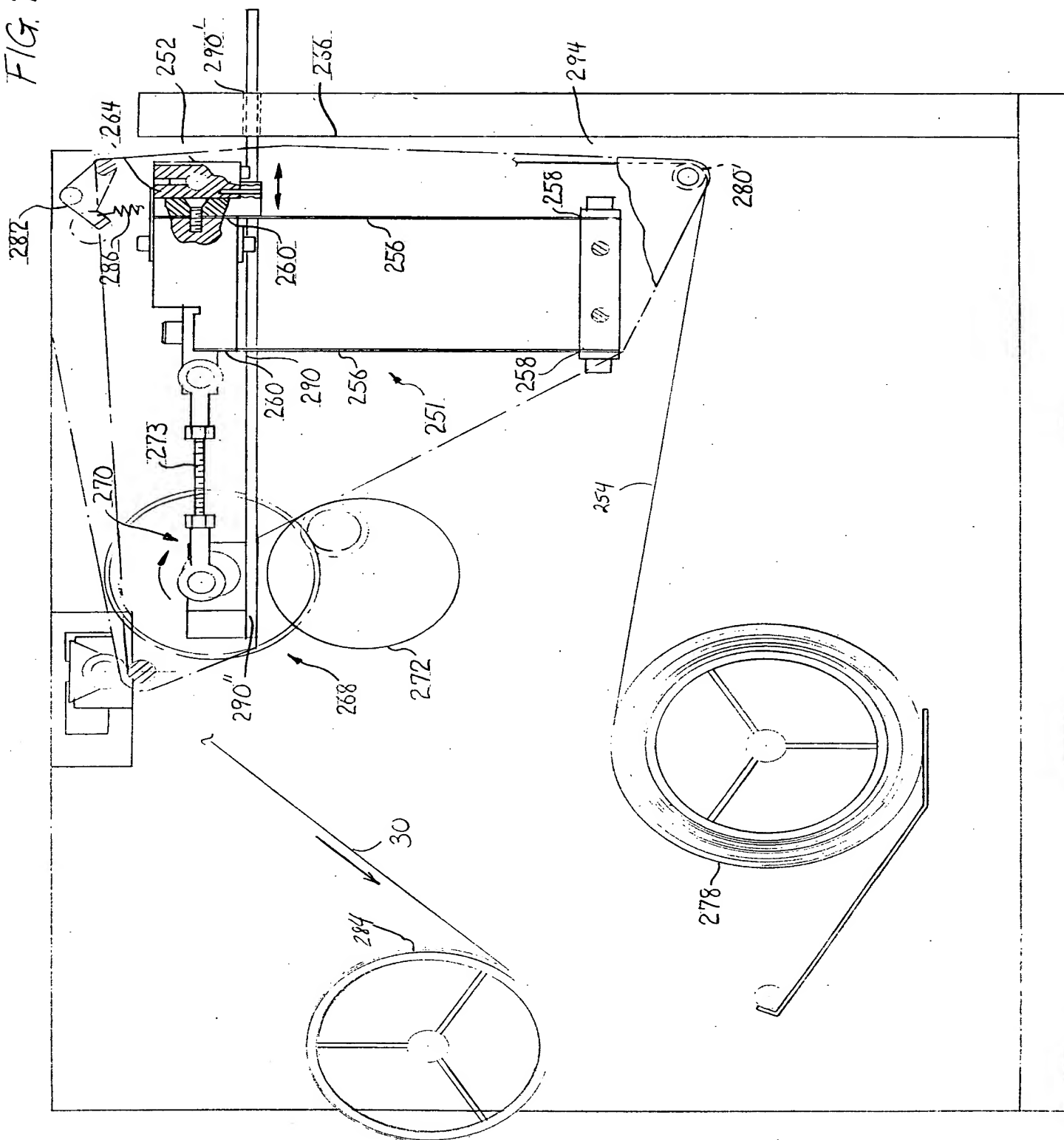


FIG. 32.

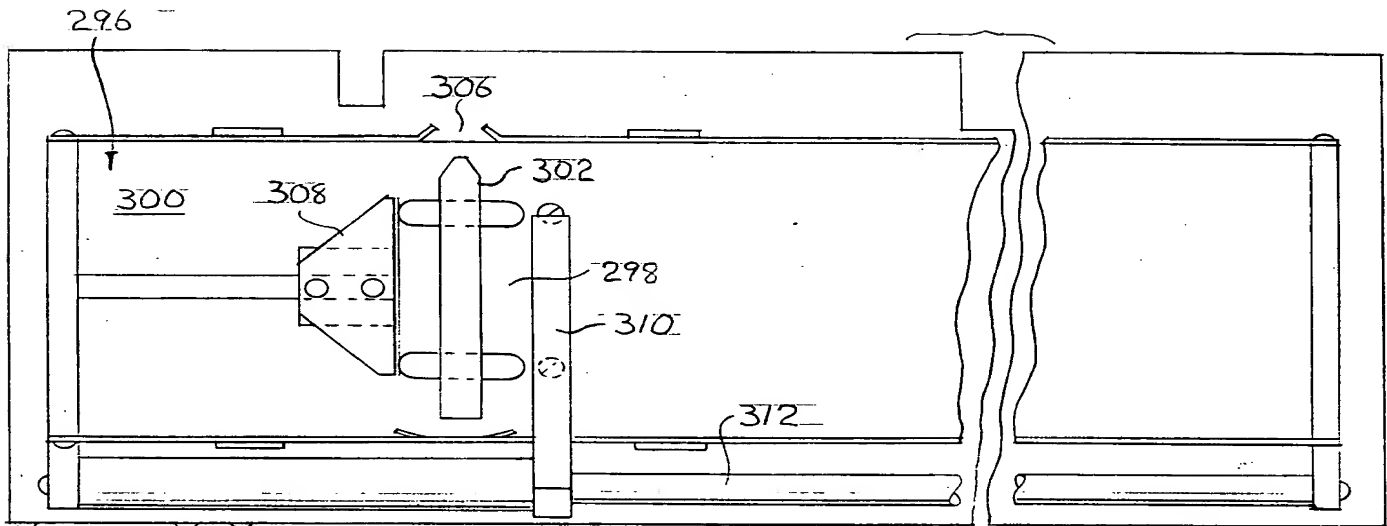
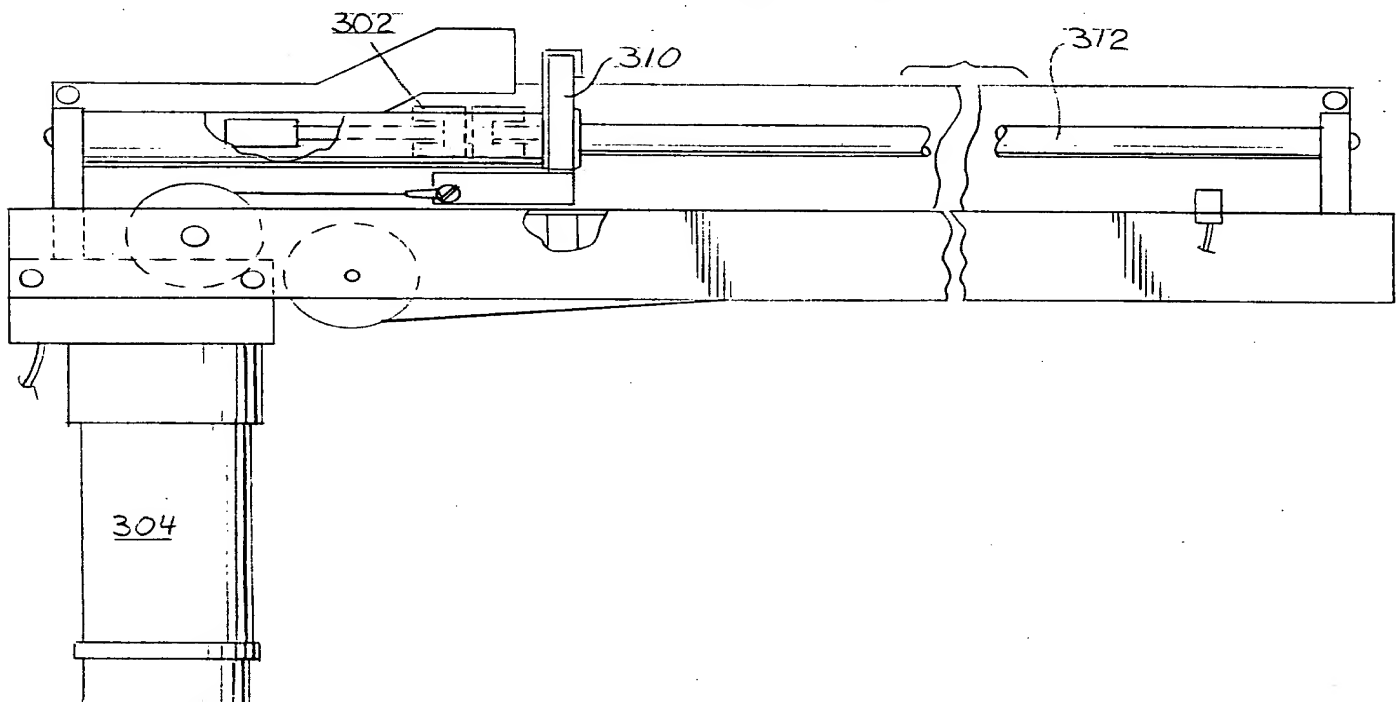


FIG. 33.



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FIG. 34.

DATA RECORD FOR CARD  
1 STORED IN EMBOSSE  
BUFFER #2

DATA RECORD FOR CARD  
2 STORED IN EMBOSSE  
BUFFER #1

DATA RECORD 1 2 3 4 \*  
7 PITCH 0 10 20 30 40 50 60

5 2 3 7 \*  
0 10 20 30

10 PITCH JOHN DOE \*  
0 7 14 21 28 35 42 49

SAM - S. MITCHELL \*  
0 7 14 21 28 35 42 49 56 63

CURRENT BELT POSITION

BELT POSITION, CLOSET  
NEXT CHARACTERS AND CARD

0  
7  
10  
14  
20  
21  
30  
35  
42

7, "O" (1)  
10, "2" (2)  
14, "H" (1)  
20, "3" (2)  
21, "N" (1)  
30, "7" (2)  
35, "O" (1)  
42, "O" (1)  
49, "E" (1)

FIG. 35.

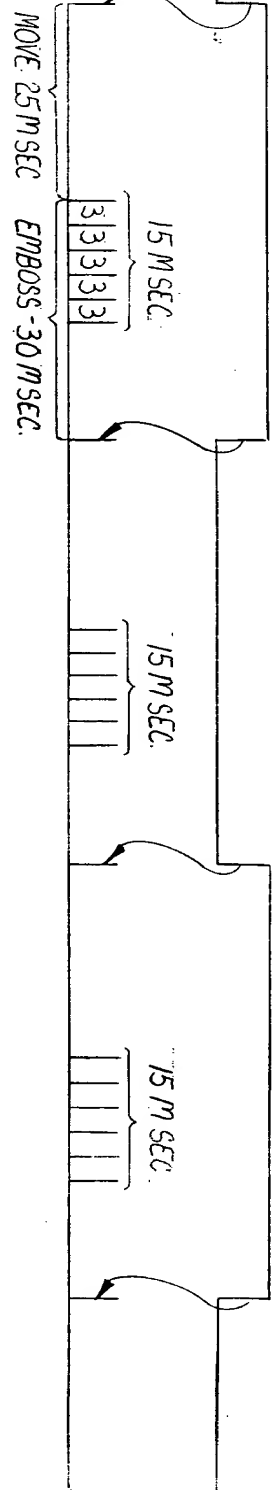
(a) 10 PITCH CAM  
DATE: 10-6-80

(b) 7 PITCH CAM

(c) DISC E SHUT

(d) DISC R SHUT

(e) TIMER  
INTERVALS msec



(f) CTS 4

HOPPER/TOPPER

(g) CTS 3

EMB 3 10 PITCH

(h) CTS 2

EMB 2 10 PITCH

(i) CTS 1

EMB 1 7 PITCH

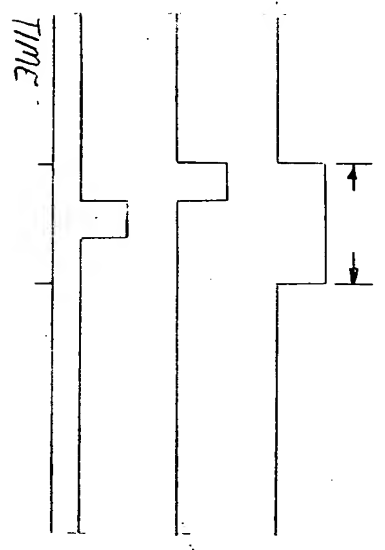


FIG. 36.

(a) CTS<sub>n</sub>

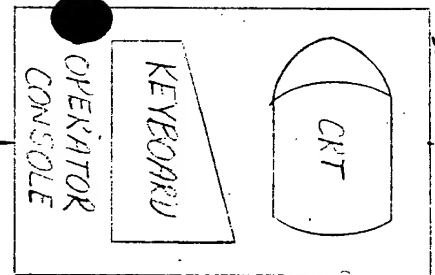
(b) MASTER TO SLAVE

(c) SLAVE TO MASTER

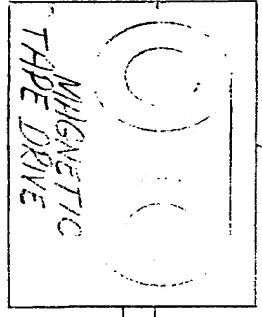


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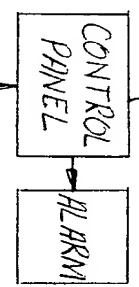
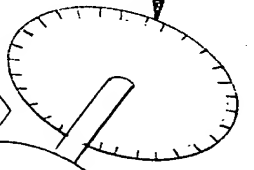
DATE 10-26-88



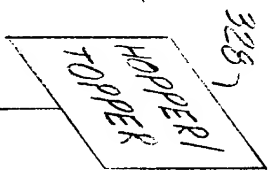
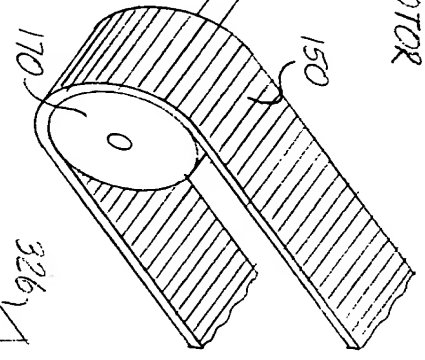
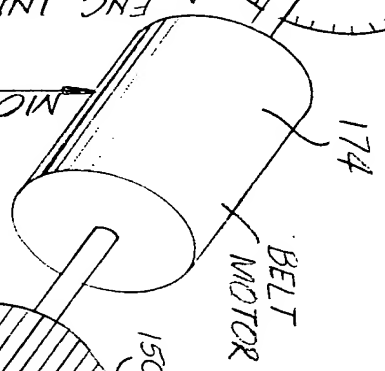
MASTER  
CONTROLLER 310



THICHOMETER



ENC. SPD. & POS.  
ENC. INDEX  
MOTOR PWR.



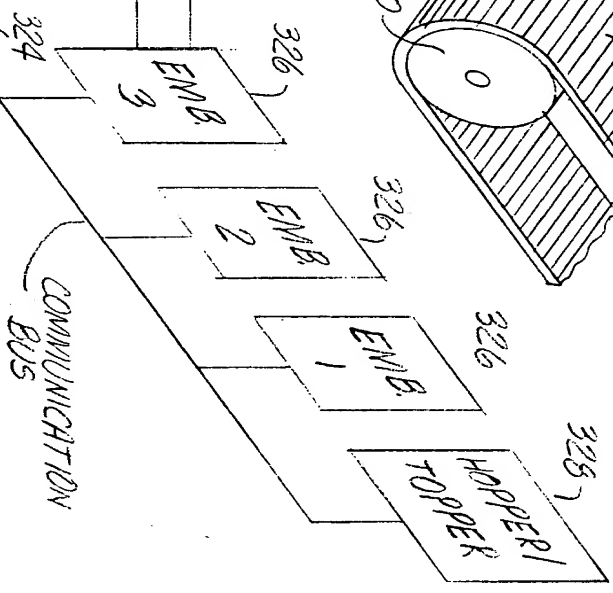
COMMIND  
PROCESSOR AND  
STATUS REPORTING  
316  
BELT POSITION  
CONTROL 318  
MASTER TIME  
CONTROL 320

READ, WRITE  
MEMORY (RAM)  
323

COMMUNICATION  
CONTROL  
322

DISC E SHUT  
DISC R SHUT  
R SHUT  
E SHUT  
RESET  
CT91  
CT92  
CT93  
CT94  
DATA OUT  
DATA IN

COMMUNICATION  
BUS



TAPE  
CONTROLLER  
314

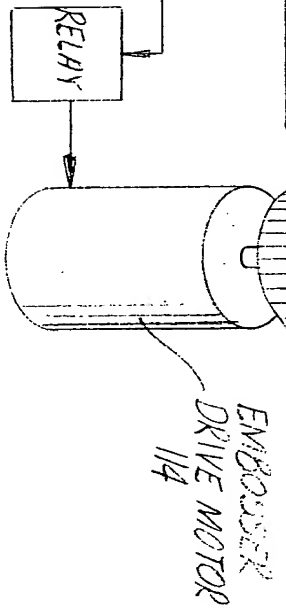
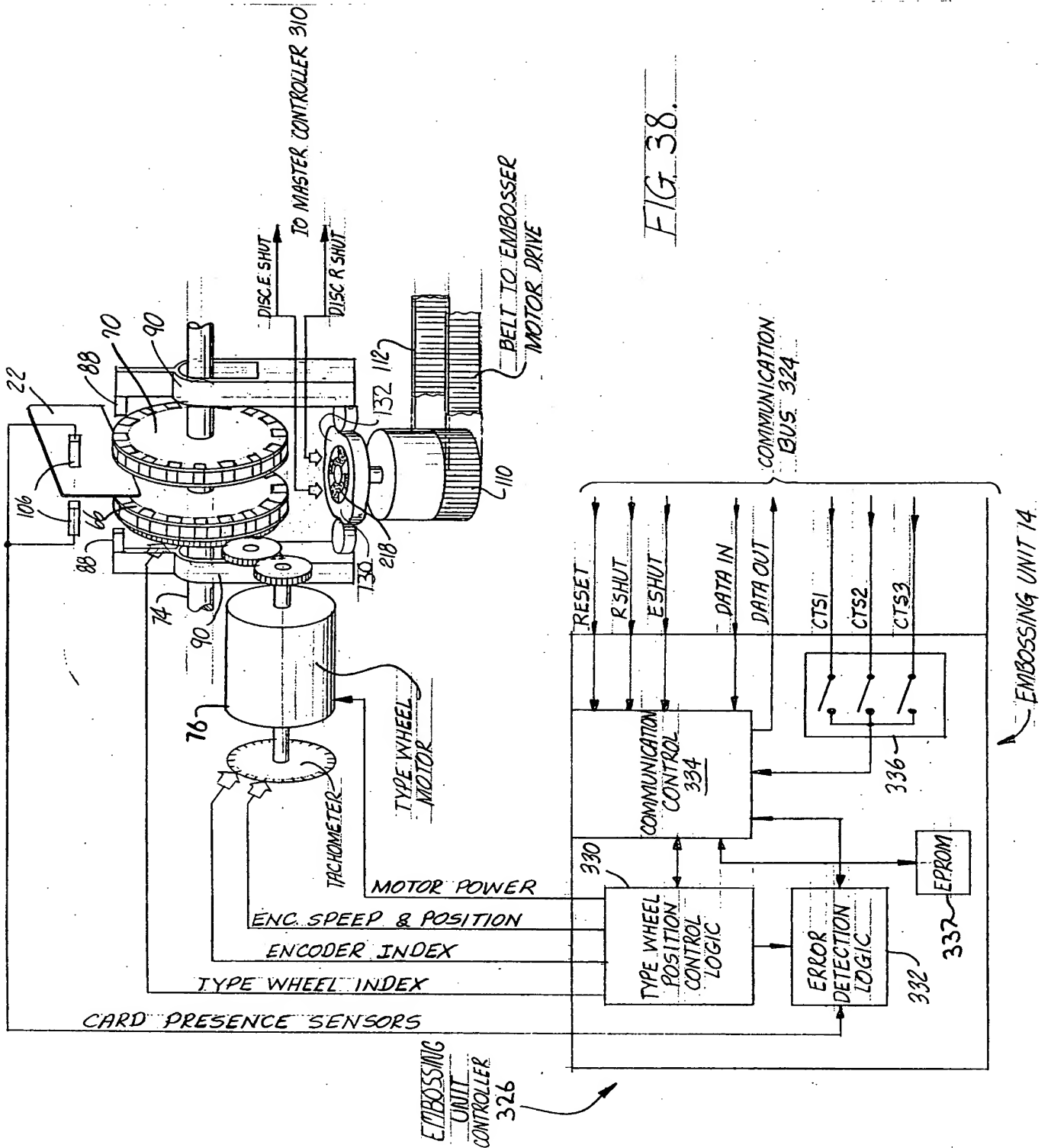


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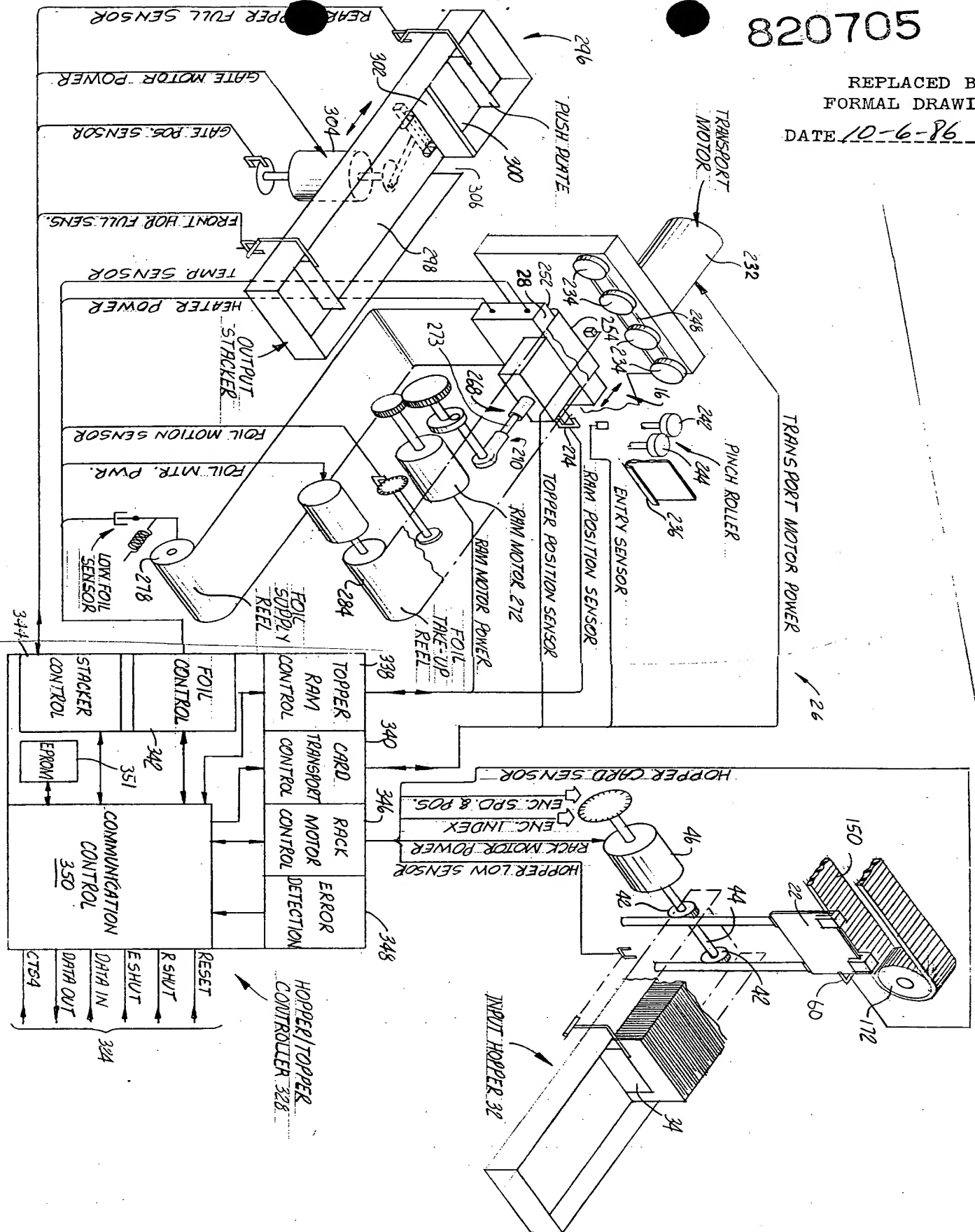
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FIG. 39.

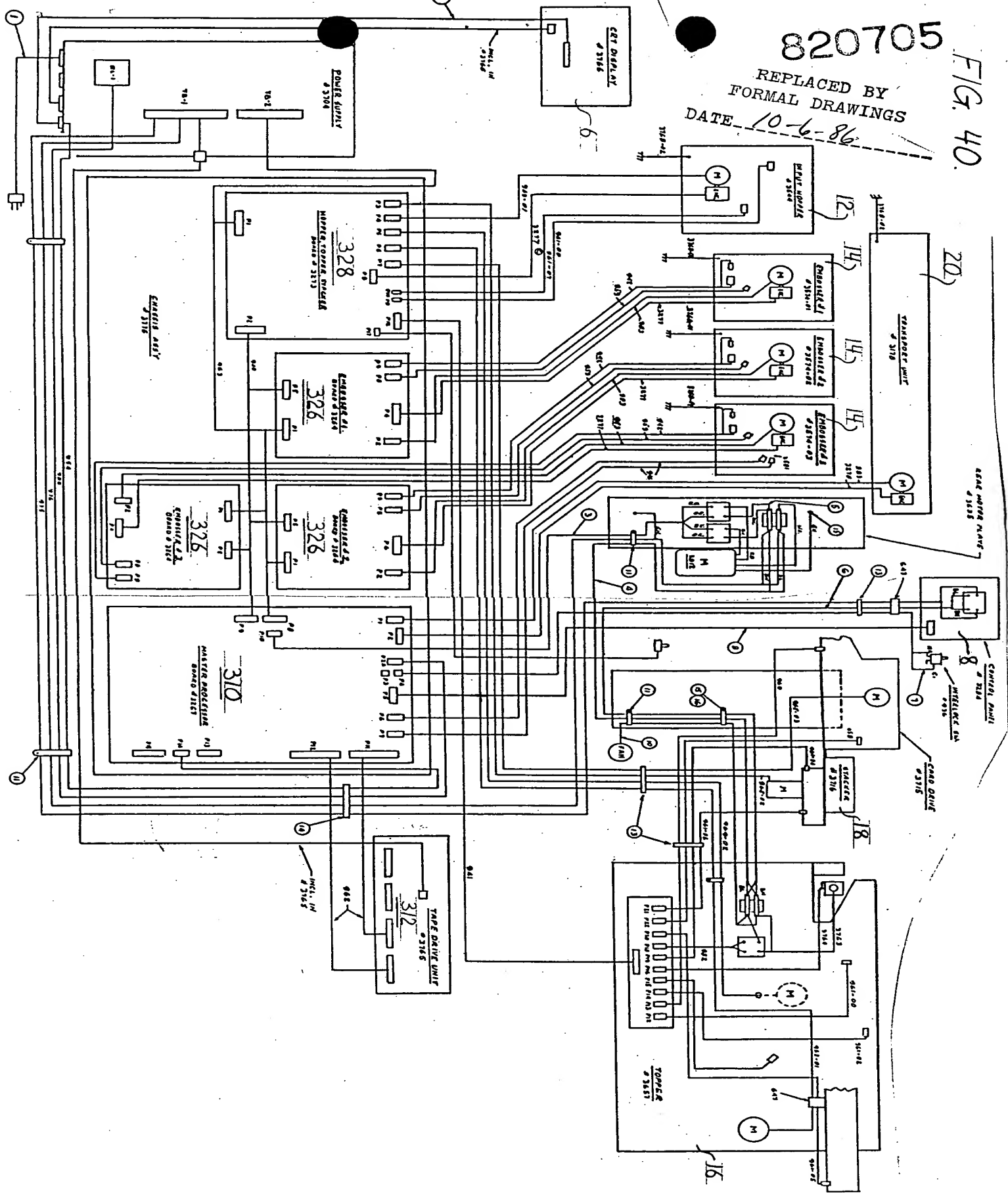




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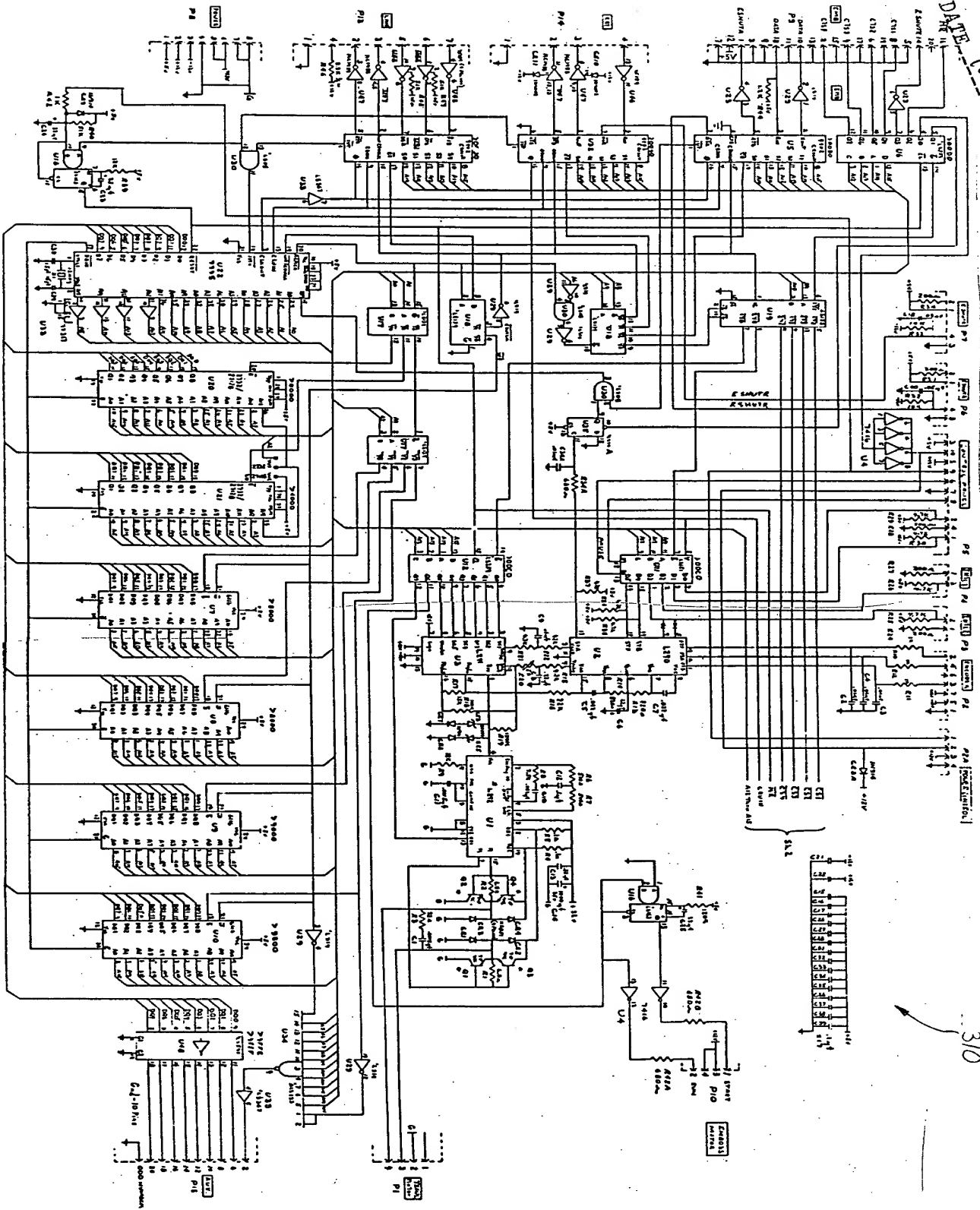
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FIG. 40.



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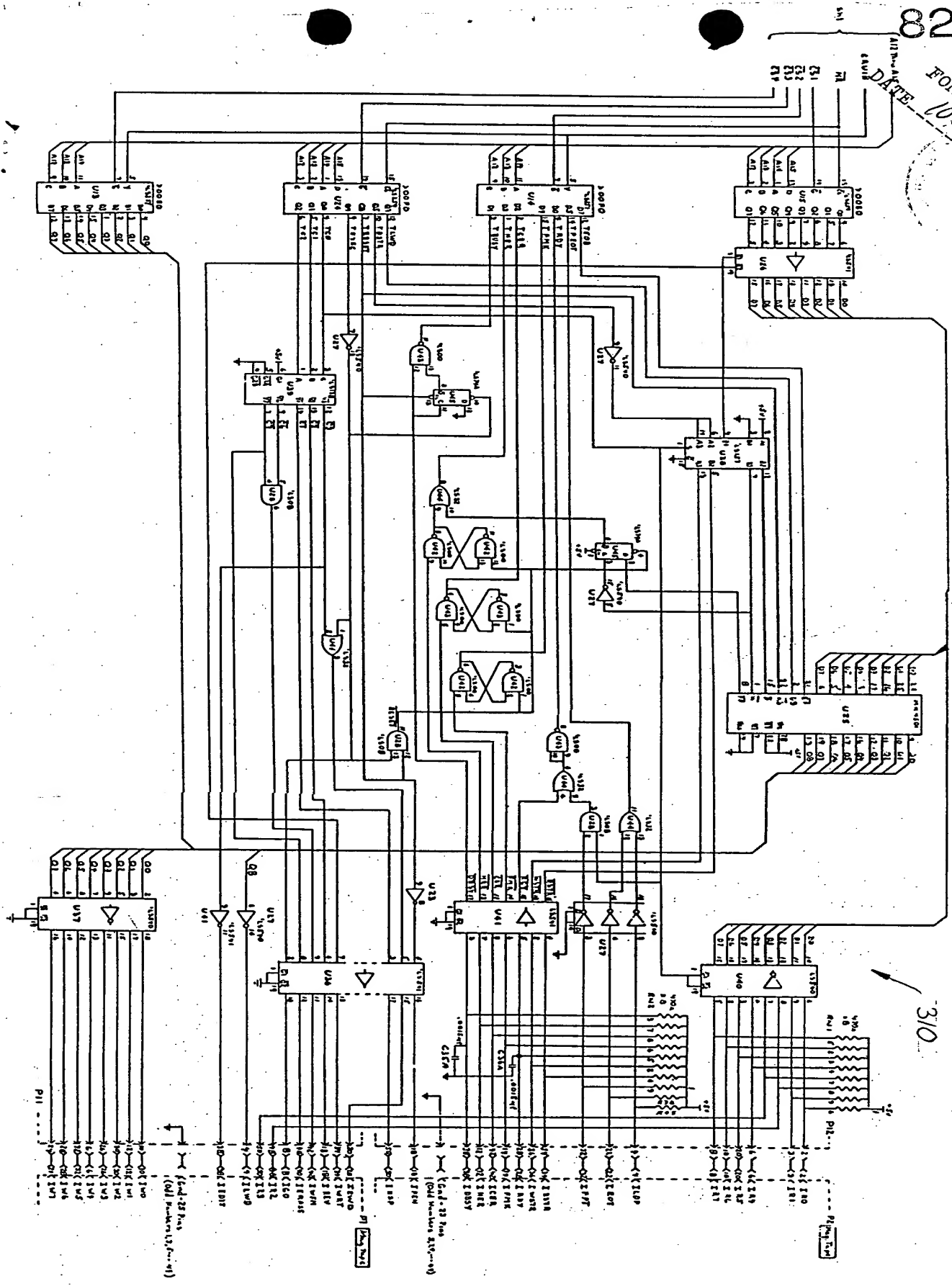
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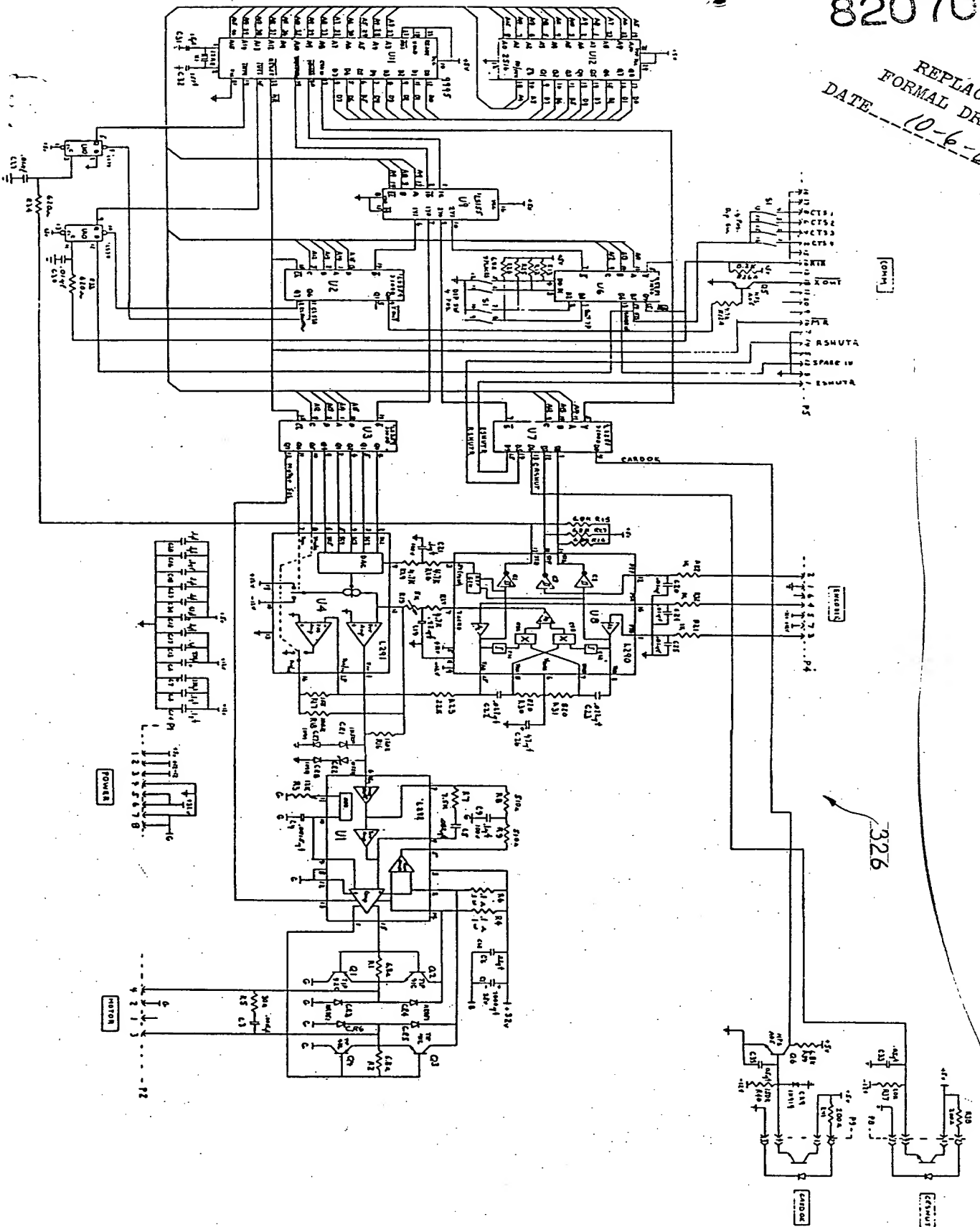
FIG. 42.



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FIG. 43.



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